

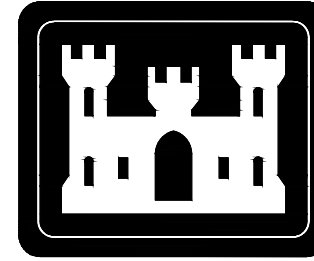


US Army Corps
of Engineers
Alaska District

WEST MARGINAL FLOAT REPLACEMENT SELDOVIA, ALASKA

THE FOLLOWING PLAN SET CONTAINS ANNOTATIONS DOCUMENTING CHANGES TO THE PROJECT REPORTED TO HAVE BEEN MADE DURING CONSTRUCTION. THESE MARKUPS ARE BASED REDLINES AND RECORDS PROVIDED BY HARRIS SAND & GRAVEL. ANNOTATIONS PREPARED BY MOFFATT & NICHOL ARE FOR INFORMATION PURPOSES ONLY.

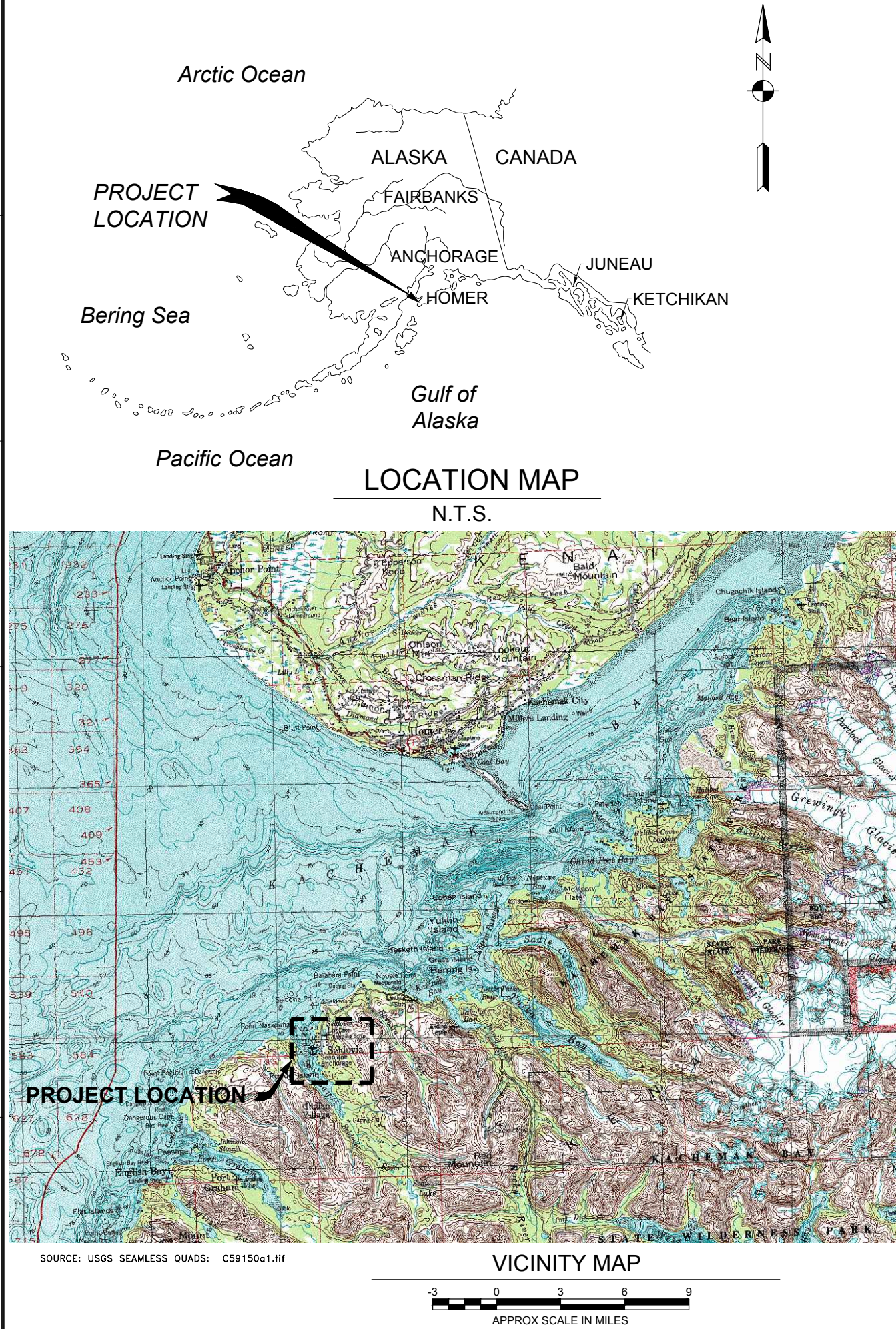
BID SET, 14 FEB 2014
AKV292
P2 NO. 326049




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Drawing # 2-SEL-163-10-01 Sheet 2 of 43

Drawing p:8203 seldovia harbor\500 CADD\560 working\akv292 - standard, 20150209\G-003 LOCATION & VICINITY MAP.dwg last saved on 3/11/2015 10:14 AM was plotted by Balzarini, Charles on 3/12/2015 11:04 AM



 US ARMY CORPS OF ENGINEERS ALASKA DISTRICT	
CONTRACT NO. _____	DATE: _____
CONTRACTOR _____	RECOMMENDED: _____
CITY _____	STATE _____
APPROVED: _____	DESIGN ENGINEER
DATE: _____	DATE: _____
SYMBOL ACTION	DESCRIPTION
DATE	APPROVED

DESIGNED: RCT	DATE: 14 FEB 2014
DRAWN: RCT	DWG SCALE: AS NOTED
REVIEWED: K. ERSSES	PLOT SCALE: 12
CHECKED: J. SAUCEDA	FILE: G003\LOCATION & VICINITY MAP
SUBMITTED: J. SAUCEDA	DRAWING# 2-SEL-163-10-01
CHIEF: J. SAUCEDA	CHIEF: J. SAUCEDA

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
GENERAL
LOCATION & VICINITY MAP

REFERENCE
NUMBER:
G-003

SHEET 3 OF 43

P2 No. 328049 AKV292

Drawing p:\8203 seldovia harbor\500 CADD\560 working\akv292 - standard, 20150209\G-004 GENERAL NOTES & ABBREVIATIONS.dwg last saved on 3/11/2015 10:14 AM was plotted by Bazarini, Charles on 3/12/2015 11:04 AM

GENERAL NOTES

1. SCOPE OF WORK:
- THIS PROJECT INCLUDES RENOVATIONS TO THE SMALL BOAT HARBOR INCLUDING THE REMOVAL OF THE EXISTING WEST MARGINAL FLOAT AND ASSOCIATED PILING. NEW FLOATS SHALL BE PROVIDED AND INSTALLED USING THE EXISTING PILING. INSTALLATION OF NEW ELECTRICAL AND POTABLE WATER SERVICE FOR THIS FLOAT AND TIE-IN TO THE EXISTING MAIN FLOATS WILL REMAIN IN PLACE.
2. STAGING AREA:
- NO STAGING AREA IS DESIGNATED. COORDINATE WITH THE CITY OF SELDOVIA IF REQUIRED. THE CITY MANAGER MAY BE REACHED BY EMAIL @ citymanager@cityofseldovia.com OR BY PHONE AT (907) 234-7643.
3. SCHEDULE AND COORDINATION:
- a. PHYSICAL WORK AT THE HARBOR SITE SHALL BE COMPLETED DURING THE MONTHS OF NOVEMBER THROUGH MARCH, INCLUSIVE. THERE IS A PERMIT STIPULATION PREVENTING PILE DRIVING DURING THE PERIOD FROM 1 APRIL THROUGH 30 JUNE. ACCESS SHALL BE MAINTAINED TO E FLOAT AT ALL TIMES. WORK SCHEDULES SHALL BE COORDINATED WITH THE HARBOR MASTER, (907) 234-7886. PROVIDE A SCHEDULE OF ALL CONSTRUCTION ACTIVITY FOR REVIEW AND APPROVAL PRIOR TO MOBILIZING TO THE SITE.

b. IF OPTION 1 - SEAPLANE FLOAT IS AWARDED, COORDINATE WITH THE HARBOR MASTER IF CLOSURE OF E FLOAT IS REQUIRED FOR SHORT PERIODS.
4. PILE DRIVING:
- a. THE CONTRACTOR SHALL PREPARE AND SUBMIT A PILE DRIVING PLAN. THIS PLAN SHALL INCLUDE THE FOLLOWING:

• A LIST OF PILE DRIVING EQUIPMENT INCLUDING BOTH AN IMPACT AND VIBRATORY HAMMER

• RECORD KEEPING PROCEDURES

• A DESCRIPTION OF METHODS TO PROPERLY ALIGN THE PILING INCLUDING ANY TEMPLATES.

b. THE MINIMUM DRIVING ENERGY FOR THE IMPACT HAMMER SHALL BE 40,000 FOOT POUNDS. VIBRATORY HAMMER SHALL HAVE A MINIMUM ECCENTRIC MOMENT OF 2,500 INCH-POUNDS AND A MINIMUM SUSPENDED WEIGHT OF 8,500 POUNDS.

c. TO AVOID DAMAGE TO THE PILING, PILE DRIVING SHALL CEASE WHEN THE ADVANCEMENT OF THE PILE REQUIRES MORE THAN 10 BLOWS TO THE INCH FOR IMPACT HAMMERS OR RATE OF PENETRATION IS LESS THAN 2 FEET PER MINUTE FOR VIBRATORY HAMMERS.

d. PILING SHALL BE DRIVEN WITH A TEMPLATE LINED WITH PLASTIC OR TIMBER BEARING SURFACE.

e. TOP ELEVATION: PILES SHALL BE CUT-OFF (WHERE REQUIRED) AT ELEVATION +35' MLLW. WHERE INSTALLATION REQUIREMENTS LEAVE THE TOP OF PILE ELEVATION LOWER THAN +35' MLLW, NOTIFY THE OWNER'S REPRESENTATIVE WHO WILL PROVIDE DIRECTION.

f. DRIVING REQUIREMENTS (EXCEPT SOCKETED PILES AND SEAPLANE FLOAT PILES): INSTALL PILES TO A MINIMUM OF 20' OF EMBEDMENT OR TO REFUSAL WITH THE DESIGNATED IMPACT HAMMER. SEAPLANE FLOAT PILES SHALL BE REUSED AND SHALL BE INSTALLED TO A TOP ELEVATION OF +35' MLLW WITH A MAXIMUM CUT-OFF OF 1'.

g. DRIVING REQUIREMENTS FOR SOCKETED PILES: PILES SHALL BE SOCKETED 12' INTO BEDROCK. TOP OF BEDROCK ELEVATION SHALL BE ESTABLISHED BY PROBING TO REFUSAL WITH THE DESIGNATED IMPACT HAMMER. PROBE PILE SHALL BE FROM THE CITY'S STOCKPILE OF PILES AND MAY BE USED IN THE WORK IF NOT DAMAGED BY PROBING OPERATIONS. ONLY ONE PILE FOR PROBING SHALL BE ALLOWED. HOLES UP TO 16" Ø MAY BE PREDRILLED THROUGH THE NEW/EXISTING PILE SLEEVES TO FACILITATE THIS WORK. DRILLED SOCKET SHALL BE CLEANED OF OBSTRUCTIONS, PILE DRIVEN TO BOTTOM OF SOCKET, AND ANNULUS BACKFILLED W/ ¾" MINUS SAND OR CRUSHED AGGREGATE FULL DEPTH OF SOCKET TO MUDLINE. SEE PILE SPLICE DETAIL, K/S-504 FOR INCIDENTAL SPLICING OF PILES REQUIRED FOR THIS WORK.

h. EXISTING PILES, BOTH THOSE IN PLACE AND IN THE CITY'S STOCKPILE ARE 12 ¾" Ø x ¾" WALL THK, HDG PIPE PILES WITH A 1" TOTAL THK INSIDE FLANGED (OUTSIDE FLUSH) DRIVING SHOE. INSTALLED LENGTHS ARE SHOWN ON THE DRIVING LOGS IN SECTION 01 19 40.00 29. STOCKPILED PILES ARE 75' LONG.

i. DRILLING AND DRIVING TOLERANCES:

• MAXIMUM VARIATION FROM VERTICAL: ½" IN 4'-0"

• MAXIMUM VARIATION FROM TOP OF PILE ELEVATION: ± 3"

• MAXIMUM HORIZONTAL OUT-OF-POSITION: 3" FROM CENTER OF MOORING RING WITH WATER LEVEL AT +5.0 MLLW OR LOWER

j. PILE CUTOFFS SHALL BE DISPOSED OF LEGALLY OFF-SITE BY THE CONTRACTOR, OFF OWNER PROPERTY. DISPOSAL OF CUTOFFS SHALL BE AT THE CONTRACTOR'S EXPENSE, AND IS INCIDENTAL TO THE WORK.

5. TIMBER MATERIALS:

a. ALL TIMBER COMPONENTS SHALL BE COASTAL REGION DOUGLAS FIR #1 OR BETTER.

b. ALL GLULAM MEMBERS SHALL BE STRESS CLASS 24F-1.8E OR COMBINATION SYMBOL 24F-V8, DF/DF, BALANCED LAYUP.

c. PLYWOOD SHALL BE 1⅝" THICK, GRADE C-C EXTERIOR, GROUP 1 SPECIES, APA CUSTOM PRODUCT V-611.
6. TIMBER PRESERVATIVE TREATMENT:

a. ALL TIMBER MATERIALS SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWP A U1 AS FOLLOWS:

b. SEAPLANE FLOAT DECK PANELS, GLULAM BULLRAILS, MILLED DECKING, AND ALL OTHER TIMBER MATERIALS ABOVE DECK LEVEL SHALL BE TREATED TO AWP A-U1 USE CLASS 4B (SALT SPLASH ZONE) AZCA 0.6 PCF NET SALT RETENTION.

c. STRINGERS AND UNDER DECK FRAMING MEMBERS SHALL BE TREATED TO AWP A-U1 USE CLASS 5A (SALT WATER IMMERSION) AZCA 2.5 PCF NET SALT RETENTION.

d. PLYWOOD SHALL BE PRESERVATIVE TREATED WITH CCA OR ACZA TO 0.6 PCF.

e. TIMBER MEMBERS SHALL BE CUT TO LENGTH, DRILLED AND DAPPED PRIOR TO PRESSURE TREATING. ALL FIELD CUTS, NICKS, ABRASIONS AND HOLES SHALL BE SATURATED WITH COPPER NAPHTHENATE SOLUTION. COPPER NAPHTHENATE SOLUTION SHALL BE FIELD APPLIED USING A CHEMICAL RESISTANT SPRAYER SUCH AS THE SOLO MODEL 465.

f. CREOSOTE TREATMENT OF TIMBERS IS UNACCEPTABLE.

7. TIMBER FASTENERS:

a. ALL TIMBER CONNECTION BOLTS SHALL BE ASTM A 307 GRADE A, UNO. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153. ALL BOLTS IN CONTACT WITH WOOD MEMBERS SHALL HAVE ECONOMY HEADS AND OR MALLEABLE IRON WASHERS UNLESS OTHERWISE NOTED. WASHER SIDE LENGTH OR DIAMETER SHALL BE AT LEAST 4 TIMES THE BOLT DIAMETER. WASHER THICKNESS SHALL BE EQUAL TO ONE HALF THE BOLT DIAMETER.

b. USE #14 x 4", PASSIVATED 316 SERIES STAINLESS STEEL, FLAT HEAD, SELF-DRILLING WOOD SCREWS FOR DECKING ATTACHMENT, 2 SCREWS PER STRINGER, UNO. SCREWS SHALL BE McFEELY'S ITEM No. 1440-SD6, OR APPROVED EQUAL. PRE-DRILL PILOT HOLES IN TIMBERS AS REQ'D PER A.I.T.C. TO PREVENT SPLITTING. PILOT HOLES SHALL BE PRE-DRILLED AT ALL LOCATIONS WHERE EDGE OR END SPLITTING COULD OCCUR.

8. TIMBER CONSTRUCTION:

INSTALL DECKING HEART SIDE DOWN.

9. STRUCTURAL WELDING:

WELDERS SHALL BE QUALIFIED AS SPECIFIED IN AWS FOR THE PARTICULAR PROCESS AND PROCEDURE THAT THE WELDER WILL PERFORM. PROCEDURE QUALIFICAITON TEST RECORDS FOR THE MATERIAL AND PROCEDURE PERFORMED WILL BE REQUIRED IN ACCORDANCE WITH AWS D1.1 SECTION 4.1.3. SUBMIT WELDER CERTIFICATIONS.

10. EXISTING FLOATS:

THE EXISTING FLOATS CONSIST OF NON-CREOSOTE PRESERVATIVE TREATED 8x8 BULLRAILS, 4x8 SCUPPERS, AND 2x10 DECKING. TIMBERS BELOW DECK LEVEL ARE CREOSOTE TREATED. EXTERIOR STRINGERS ARE 6x8s WITH TWO 4x6 INTERIOR STRINGERS. 6x6 TRANSVERSE FRAMING IS PROVIDED BETWEEN COATED POLYSTYRENE FOAM FLOATATION BILLETS. FLOATS ARE "CONTINUOUS" WITH BOLTED JOINTS THROUGH THE BULLRAILS, BLOCKING (SCUPPERS) AND STRINGERS. THE ANGLED JOINT (IN PLAN VIEW) ALSO INCLUDES STEEL BACK-UP PLATES ON THE STRINGERS AND BULLRAILS.

11. GALVANIZING

ALL STEEL ITEMS SHALL BE HOT-DIPPED GALVANIZED, AFTER FABRICATION, PER ASTM A-123 WITH MINIMUM AVERAGE COATING THICKNESS INCREASED TO 6 MILS. STEEL HARDWARE INCLUDING LAG AND ALL OTHER BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED PER ASTM A-153. GALVANIZING DAMAGED FROM SHIPPING, HANDLING, WELDING, CUTTING OR BY OTHER MEANS SHALL BE REPAIRED IN ACCORDANCE WITH ASTM A780, USING ZINC-BASE SOLDERS, SUCH AS "GALV-STICK" OR APPROVED EQUAL, FOLLOWED BY A TOP COAT OF ZINC RICH PAINT. REPAIR SHALL FOLLOW PROCEDURES INDICATED IN ASTM A780, ANNEX A1, AND IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. REPAIRED AREAS SHALL HAVE A MINIMUM DRY FILM COATING THICKNESS OF 6 MILS TESTED PRIOR TO TOP COATING.

12. FIELD WELDING:

PREHEAT STEEL TO A MINIMUM 50°F TO DRIVE OFF MOISTURE AND WELD PER AWS D1.1.

13. TIDAL DATA, SELDOVIA, ALASKA

TIDAL EPOCH: 1983-2001

STATION ID: 9455500

STATION NAME: SELDOVIA, COOK INLET ALASKA

NOAA CHART: 16646

USGS QUAD (1:63,000): SELDOVIA B-5

ELEVATIONS OF DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW), IN FEET:

HIGHEST OBSERVED WATER LEVEL (10/15/1966) = 25.25

MEAN HIGHER HIGH WATER (MHHW) = 18.04


MEAN HIGH WATER (MHW) = 17.23

MEAN SEA LEVEL (MSL) = 9.52

MEAN TIDE LEVEL (MTL) = 9.46

MEAN LOW WATER (MLW) = 1.70

MEAN LOWER LOW WATER (MLLW) = 0.00

LOWEST OBSERVED WATER LEVEL (04/27/2002) = -6.47
- ABBREVIATIONS
- | | | | |
|---------|--|---------|--|
| @ | AT | M | STEEL SHAPE FROM THE MISCELLANEOUS SECTION |
| # | NUMBER | MAX | MAXIMUM |
| & | AND | MBR(S) | MEMBERS(S) |
| 2L | DOUBLE ANGLE | MI | MALLEABLE IRON |
| 4x ASZ | 4x ACTUAL SIZE @ DWG SCALE | MILS | THOUSANDTHS OF AN INCH |
| € | CENTERLINE | MIN | MINIMUM |
| Ø | DIAMETER, ROUND | MISC | MISCELLANEOUS |
| | | MIW | MALLEABLE IRON WASHER |
| AB | ANCHOR BOLT | MPa | MEGAPASCAL(S) |
| ACZA | AMMONIACAL COPPER ZINC ARSENATE | MPH | MILES PER HOUR |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION | MT | STRUCTURAL TEE FROM THE M SERIES SECTION |
| AKDOT | ALASKA DEPARTMENT OF TRANSPORTATION | N | NORTH |
| ALUM | ALUMINUM | NIC | NOT IN CONTRACT |
| APA | AMERICAN PLYWOOD ASSOCIATION | NO. | NUMBER |
| APPROX | APPROXIMATELY | NOM | NOMINAL |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | NPS | NOMINAL PIPE SIZE |
| AWS | AMERICAN WELDING SOCIETY | NS | NEAR SIDE |
| | | NTS | NOT TO SCALE |
| | | OC | ON CENTER |
| BJ | BAR JOIST | OD | OUTSIDE DIAMETER |
| BLDG | BUILDING | OPP | OPPOSITE |
| BLKG | BLOCKING | OVS | OVERSIZED HOLES |
| BOTT | BOTTOM | | |
| BP | BASE PLATE | PC | POINT OF CURVATURE |
| | | PFH | PHILLIPS FLAT HEAD |
| C | AMERICAN STANDARD CHANNELS | PJP | PARTIAL JOINT PENETRATION |
| CCA | CHROMATED COPPER ARSENATE | PL | PLATE(S) |
| CHKR | CHECKER | PLF | POUNDS PER LINEAR FOOT |
| CIP | CAST IN PLACE | PSI | POUNDS PER SQUARE INCH |
| CJP | COMPLETE JOINT PENETRATION | PT | POINT OF TANGENCY |
| CL | CENTERLINE | | |
| CLR | CLEAR | R | RADIUS |
| CMU | CONCRETE MASONRY UNIT | RBW | RUBBLEMOUND BREAKWATER |
| CONC | CONCRETE | REBAR | REINFORCING STEEL BAR(S) |
| CONN(S) | CONNECTION(S) | REINF | REINFORCING, REINFORCEMENT, REINFORCED |
| CONT | CONTINUOUS | REQD | REQUIRED |
| COORD'S | COORDINATES | RO | ROUGH OPENING |
| CP | COMPLETE PENETRATION | RP | RADIUS POINT |
| CSC | COUNTERSINK, COUNTERSUNK | RS | RUB STRIP |
| | | S | AMERICAN STANDARD STEEL SHAPE, SOUTH |
| DET(S) | DETAIL(S) | | SPACING |
| DICA | DRILL-IN-CONCRETE-ANCHOR | SCHED | SCHEDULE |
| DIST | DISTANCE | SECT | SECTION |
| DO | DITTO | SHT | SHEET |
| DWG(S) | DRAWING(S) | SIM | SIMILAR |
| | | SLH | SHORT LEG HORIZONTAL |
| (E) | EXISTING | SLV | SHORT LEG VERTICAL |
| EA | EACH | SOG | SLAB ON GRADE |
| EF | EACH FACE | SPEC | SPECIFICATION |
| EL | ELEVATION, EARTHQUAKE LOAD | SQ | SQUARE |
| EW | EACH WAY | SS | STAINLESS STEEL |
| EXP | EXPANSION | SSL | SHORT-SLOTTED HOLE(S) |
| EXT | EXTERIOR | ST | STRUCTURAL TEE FROM THE S SERIES SECTION |
| | | STD | STANDARD, STANDARD WEIGHT PIPE |
| f c | COMPRESSIVE STRENGTH | STL | STEEL |
| FAB | FABRICATION | STRGR | STRINGER |
| FBW | FLOATING BREAKWATER | SYM | SYMMETRICAL |
| FF | FINISH FLOOR | | |
| FH | FLAT HEAD | T | TOP |
| FIO | FOR INFORMATION ONLY | T&B | TOP & BOTTOM |
| FLR | FLOOR | THK | THICK(NESS) |
| FRT | FIRE RETARDANT TREATED | THRU | THROUGH |
| FS | FAR SIDE | TOC | TOP OF CONCRETE |
| | | TRANS | TRANSVERSE |
| | | TYP | TYPICAL |
| | | UNO | UNLESS NOTED OTHERWISE |
| | | UHMW-PE | ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE |
| | | USACE | U.S. ARMY CORPS OF ENGINEERS |
| | | VERT | VERTICAL |
| | | W | W SERIES SECTION, WEST, WIDE |
| | | W/ | WITH |
| | | W/O | WITHOUT |
| | | WL | WORK LINE |
| | | WP | WORK POINT |
| | | WT | WEIGHT, STRUCTURAL TEE FROM W SERIES SECTION |
| | | WWF | WELDED WIRE FABRIC |
| | | XS | EXTRA-STRONG WEIGHT PIPE |
| | | XXS | DOUBLE-EXTRA-STRONG WEIGHT PIPE |
| L | ANGLE, LONG | | |
| LBS | POUNDS | YD | YARD |
| LLH | LONG LEG HORIZONTAL | YD³ | CUBIC YARD |
| LLV | LONG LEG VERTICAL | | |
| LONG | LONGITUDINAL | | |
| LSL | LONG-SLOTTED HOLE(S) | | |
- IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED SCALE PRINT. ADJUST SCALE ACCORDINGLY.
- BID SET
- 

US ARMY CORPS
OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. _____

CONTRACTOR _____

CITY _____

RECOMMENDED: _____

DATE: _____

APPROVED: _____

DESIGNED: _____

DRAWN: _____

REVIEWED: _____

FILED: _____

DRAWING NO. _____

DATE: 14 FEB 2014

DWG SCALE: AS NOTED

PLT SCALE: 1/2


FILED: _____

DRAWING NO. 2-SEL-163-10-01

AKV292

P2 No. 328049

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA



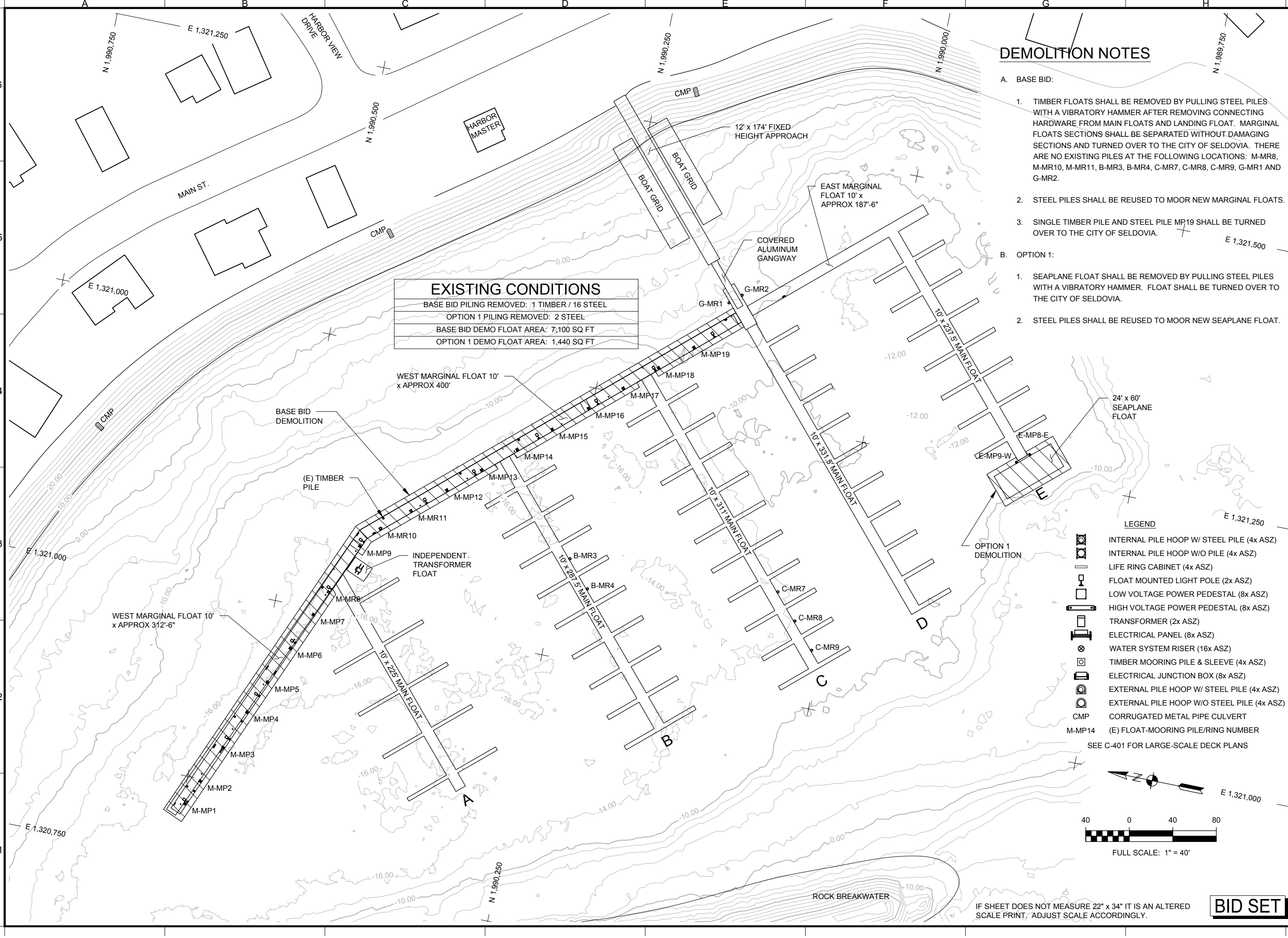
SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT

GENERAL
GENERAL NOTES & ABBREVIATIONS

REFERENCE
NUMBER:
G-004

SHEET 4 OF 43

Drawing p:8203 seldovia harbor500 CADD560 workingakv292 - standard, 20150209(C-101 EXISTING SITE & DEMOLITION PLAN.dwg last saved on 3/11/2015 3:33 PM was plotted by Balzarini, Charles on 3/12/2015 11:04 AM

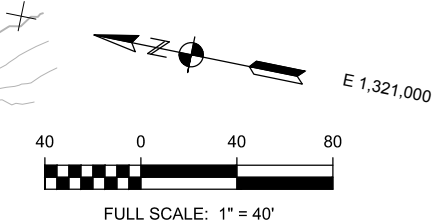


EXISTING CONDITIONS	
BASE BID PILING REMOVED:	1 TIMBER / 16 STEEL
OPTION 1 PILING REMOVED:	2 STEEL
BASE BID DEMO FLOAT AREA:	7,100 SQ FT
OPTION 1 DEMO FLOAT AREA:	1,440 SQ FT

DEMOLITION NOTES

- A. BASE BID:
- TIMBER FLOATS SHALL BE REMOVED BY PULLING STEEL PILES WITH A VIBRATORY HAMMER AFTER REMOVING CONNECTING HARDWARE FROM MAIN FLOATS AND LANDING FLOAT. MARGINAL FLOATS SECTIONS SHALL BE SEPARATED WITHOUT DAMAGING SECTIONS AND TURNED OVER TO THE CITY OF SELDOVIA. THERE ARE NO EXISTING PILES AT THE FOLLOWING LOCATIONS: M-MR8, M-MR10, M-MR11, B-MR3, B-MR4, C-MR7, C-MR8, C-MR9, G-MR1 AND G-MR2.
 - STEEL PILES SHALL BE REUSED TO MOOR NEW MARGINAL FLOATS.
 - SINGLE TIMBER PILE AND STEEL PILE MP19 SHALL BE TURNED OVER TO THE CITY OF SELDOVIA.
- B. OPTION 1:
- SEAPLANE FLOAT SHALL BE REMOVED BY PULLING STEEL PILES WITH A VIBRATORY HAMMER. FLOAT SHALL BE TURNED OVER TO THE CITY OF SELDOVIA.
 - STEEL PILES SHALL BE REUSED TO MOOR NEW SEAPLANE FLOAT.

- LEGEND
- INTERNAL PILE HOOP W/ STEEL PILE (4x ASZ)
 - INTERNAL PILE HOOP W/O PILE (4x ASZ)
 - LIFE RING CABINET (4x ASZ)
 - FLOAT MOUNTED LIGHT POLE (2x ASZ)
 - LOW VOLTAGE POWER PEDESTAL (8x ASZ)
 - HIGH VOLTAGE POWER PEDESTAL (8x ASZ)
 - TRANSFORMER (2x ASZ)
 - ELECTRICAL PANEL (8x ASZ)
 - WATER SYSTEM RISER (16x ASZ)
 - TIMBER MOORING PILE & SLEEVE (4x ASZ)
 - ELECTRICAL JUNCTION BOX (8x ASZ)
 - EXTERNAL PILE HOOP W/ STEEL PILE (4x ASZ)
 - EXTERNAL PILE HOOP W/O STEEL PILE (4x ASZ)
 - CORRUGATED METAL PIPE CULVERT
 - (E) FLOAT-MOORING PILE/RING NUMBER
- SEE C-401 FOR LARGE-SCALE DECK PLANS



US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO.	CONTRACTOR	CITY	STATE	DATE

RECOMMENDED	APPROVED	DESIGNED	DATE

SYMBOL	DESCRIPTION	DATE	APPROVED

DESIGNED: RCT	DATE: 14 FEB 2014
DRAWN: RCT	DWG SCALE: AS NOTED
REVIEWED: K. ESSES	PLOT SCALE: 12
CHECKED: J. SAUCEDA	FILE: C:\ENGINEERING\AKV292\AKV292.dwg
SUBMITTED: J. SAUCEDA	DRAWING #: 2-SEL-163-10-01
CHECKED: J. SAUCEDA	PROJECT: WEST MARGINAL FLOAT REPLACEMENT

AKV292

P2 No. 326049

SELDOVIA, ALASKA

WEST MARGINAL FLOAT REPLACEMENT

CIVIL PLANS

EXISTING SITE & DEMOLITION PLAN

REFERENCE NUMBER:

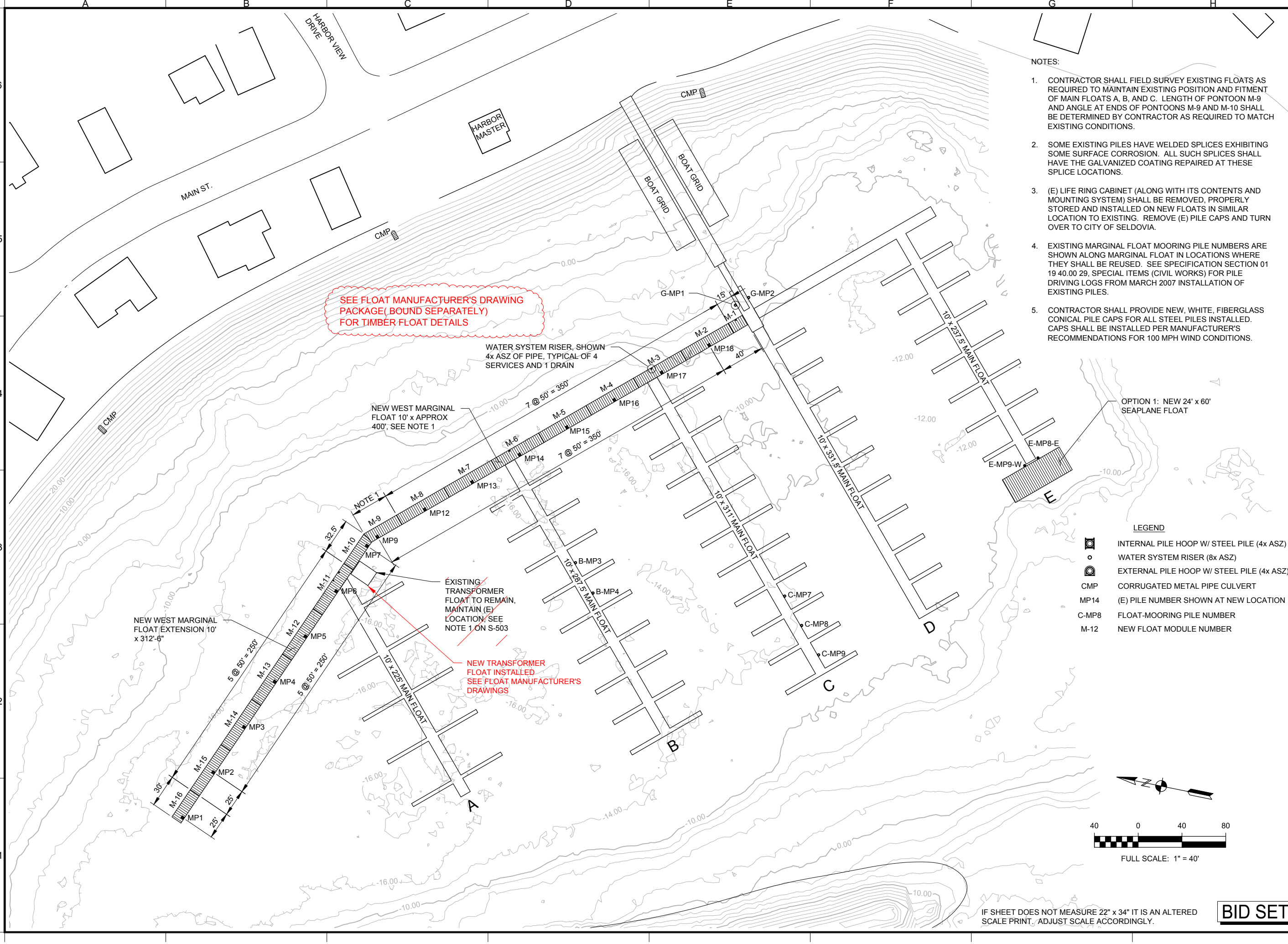
C-101

SHEET 5 OF 43

IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED SCALE PRINT, ADJUST SCALE ACCORDINGLY.

BID SET

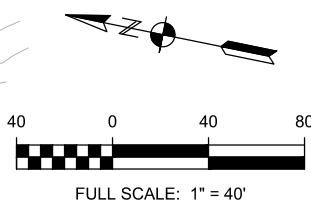
Drawing p:\8203 seldovia harbor\500 CADD\560 working\akv292 - standard, 20150209\C-102 NEW FLOAT LAYOUT.dwg last saved on 3/11/2015 3:14 PM was plotted by Balzarini, Charles on 3/12/2015 11:05 AM



- NOTES:
1. CONTRACTOR SHALL FIELD SURVEY EXISTING FLOATS AS REQUIRED TO MAINTAIN EXISTING POSITION AND FITMENT OF MAIN FLOATS A, B, AND C. LENGTH OF PONTOON M-9 AND ANGLE AT ENDS OF PONTOONS M-9 AND M-10 SHALL BE DETERMINED BY CONTRACTOR AS REQUIRED TO MATCH EXISTING CONDITIONS.
 2. SOME EXISTING PILES HAVE WELDED SPLICES EXHIBITING SOME SURFACE CORROSION. ALL SUCH SPLICES SHALL HAVE THE GALVANIZED COATING REPAIRED AT THESE SPLICE LOCATIONS.
 3. (E) LIFE RING CABINET (ALONG WITH ITS CONTENTS AND MOUNTING SYSTEM) SHALL BE REMOVED, PROPERLY STORED AND INSTALLED ON NEW FLOATS IN SIMILAR LOCATION TO EXISTING. REMOVE (E) PILE CAPS AND TURN OVER TO CITY OF SELDOVIA.
 4. EXISTING MARGINAL FLOAT MOORING PILE NUMBERS ARE SHOWN ALONG MARGINAL FLOAT IN LOCATIONS WHERE THEY SHALL BE REUSED. SEE SPECIFICATION SECTION 01 19 40.00 29, SPECIAL ITEMS (CIVIL WORKS) FOR PILE DRIVING LOGS FROM MARCH 2007 INSTALLATION OF EXISTING PILES.
 5. CONTRACTOR SHALL PROVIDE NEW, WHITE, FIBERGLASS CONICAL PILE CAPS FOR ALL STEEL PILES INSTALLED. CAPS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR 100 MPH WIND CONDITIONS.

LEGEND

- INTERNAL PILE HOOP W/ STEEL PILE (4x ASZ)
- WATER SYSTEM RISER (8x ASZ)
- EXTERNAL PILE HOOP W/ STEEL PILE (4x ASZ)
- CMP CORRUGATED METAL PIPE CULVERT
- MP14 (E) PILE NUMBER SHOWN AT NEW LOCATION
- C-MP8 FLOAT-MOORING PILE NUMBER
- M-12 NEW FLOAT MODULE NUMBER



IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED SCALE PRINT. ADJUST SCALE ACCORDINGLY.

BID SET

US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO.	CONTRACTOR	CITY	STATE	DATE

RECOMMENDED	APPROVED	DESIGN ENGINEER

SYN	ACTION	DESCRIPTION	DATE	APPD

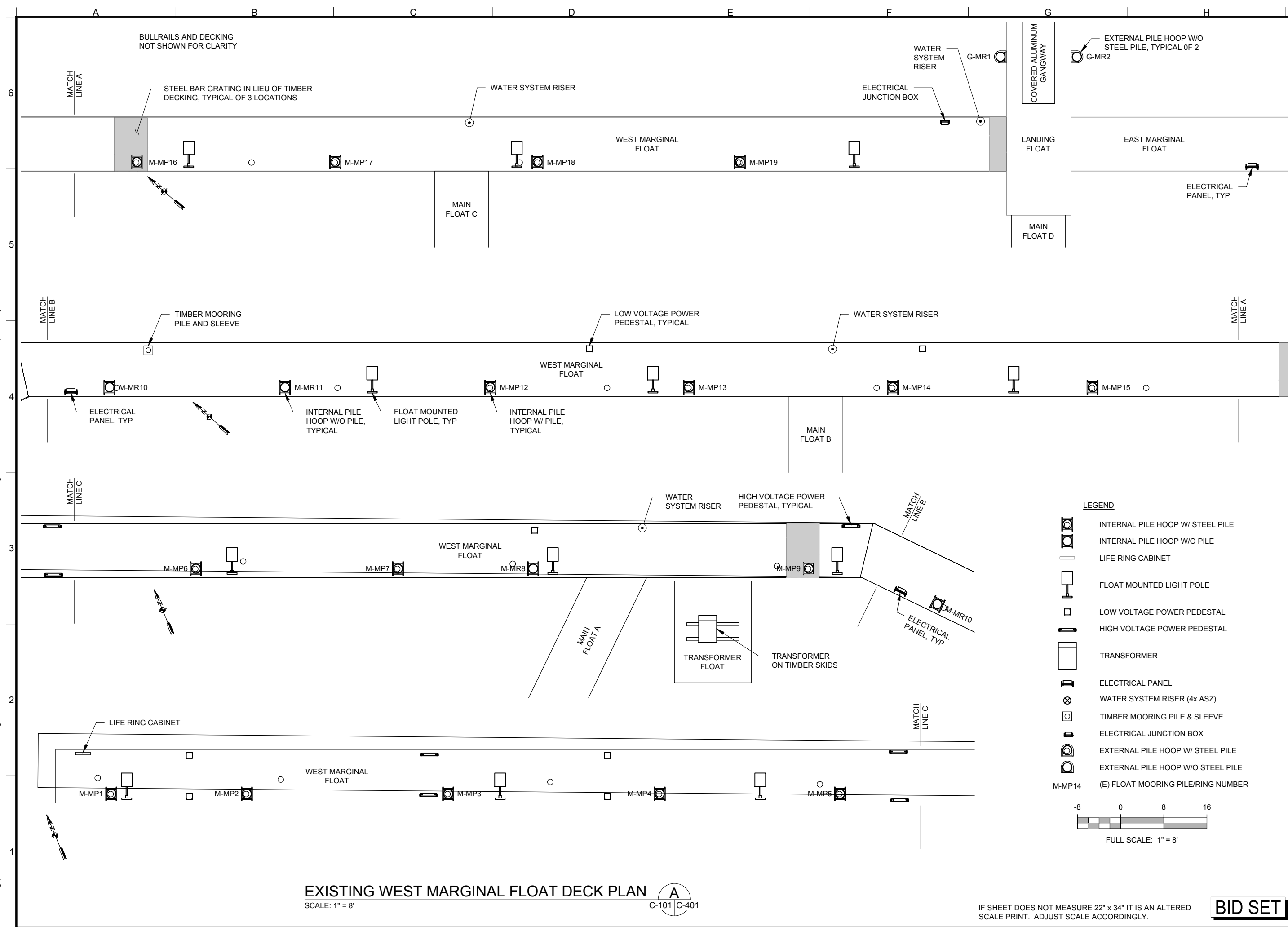
DATE: 14 FEB 2014	DWG SCALE: AS NOTED	PLAT SCALE: 1/2
DESIGNED: RCT	DRAWN: RCT	CHECKED: K. EISES
REVIEWED: K. EISES	CHIEF: J. SAUCEDA	FILE: C-102 NEW FLOAT LAYOUT
SUBMITTED: J. SAUCEDA	CHIEF: J. SAUCEDA	DRAWING #: 2-SEL-163-10-01

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
CIVIL
PLANS
NEW FLOAT LAYOUT

REFERENCE NUMBER:
C-102
SHEET 6 OF 43

AKV292
P2 No. 328049

[illegible]

An aerial photograph of a marina. A long, narrow breakwater extends from the left side into the water. Several piers are arranged in a grid-like pattern, with numerous small boats docked at them. A larger boat is docked at a pier on the right. In the bottom right corner, there are buildings on a rocky shore, including a large white building with a flat roof. The water is a deep blue color.

A wooden dock extends into a calm lake under a clear blue sky. In the background, a small boat is moored, and snow-capped mountains rise on the far shore. The foreground shows the wooden planks of the dock and white pilings. A timestamp in the bottom right corner reads "4/26/2012 18:32".

A photograph of a wooden dock area. In the foreground, there's a wooden structure with a metal grate. A red building is visible on the right. A boat is partially visible on the left. The water is in the background. A timestamp "4/27/2012 10:40" is overlaid in red at the bottom right.

A photograph of a wooden dock area. In the background, there are two red buildings with white doors. A small white cart with a sign is parked on the dock. The foreground shows wooden planks and some papers or a small bag lying on the ground. A timestamp in the bottom right corner reads "4/27/2012 7:53".

A photograph showing a wooden pier or dock extending into a body of water. A metal ramp with railings is installed on the pier, leading towards a structure in the background. The water is calm, and a shoreline with buildings is visible in the distance. A red timestamp '4/27/2012 16:02' is overlaid in the bottom right corner.

A close-up photograph of a vertical metal post, likely part of a boat's structure. The post is covered in a greyish, textured material, possibly a protective coating or paint. A prominent horizontal band of rust is visible around the middle of the post. To the left, a wooden dock with planks is visible, and a green rope is tied to a metal rail. In the background, a blue boat with the word "RAID" on its side is partially visible. A red timestamp in the bottom right corner reads "4/27/2012 8:43".

 US ARMY CORPS OF ENGINEERS ALASKA DISTRICT	
DESIGNED: RCT DRAWN: RCT REVIEWED: K. EISSES CHECKED: J. EISSES IN CHARGE: J. EISSES DATE: 14 FEB 2014	DWG SCALE: AS NOTED PLOT SCALE: 1:2 FILE: 24 FEB 2014 09:00 AM DRAWING #: 2-SEL-183-10-01
WEST MARGINAL FLOAT REPLACEMENT CIVIL PHOTOS SITE AND CONDITION PHOTOS FROM APRIL 2012 UNO	
REFERENCE NUMBER: C-901	
SHEET 8 OF 43	

BID SET

REFERENCE
NUMBER:
C-901
SHEET 8 OF 43

Drawing p:\8203 seldovia harbor\500 CADD\560 working\akv292 - standard, 20150209\C-902 MISCELLANEOUS DETAIL PHOTOS FROM APRIL 2012.dwg last saved on 3/11/2015 10:14 AM was plotted by Balzarini, Charles on 3/12/2015 11:07 AM



PHOTO 10: A-FLOAT CONNECTION TO WEST MARGINAL FLOAT. TAKEN FROM WEST MARGINAL FLOAT. NOTE TYPICAL LIFE RING CABINET.



PHOTO 11: CLOSE-UP OF A-FLOAT CONNECTION PLATE.



PHOTO 12: B-FLOAT CONNECTION TO WEST MARGINAL FLOAT. TAKEN FROM WEST MARGINAL FLOAT.



PHOTO 13: CLOSE-UP OF B-FLOAT CONNECTION PLATE.



PHOTO 14: C-FLOAT CONNECTION TO WEST MARGINAL FLOAT. TAKEN FROM WEST MARGINAL FLOAT.



PHOTO 15: CLOSE-UP OF C-FLOAT CONNECTION PLATE.



PHOTO 16: TYPICAL INTERNAL PILE HOOP.



PHOTO 17: TYPICAL EXTERNAL PILE HOOP.



PHOTO 18: TYPICAL WELDMENT CONNECTING TRANSFORMER FLOAT TO WEST MARGINAL FLOAT. TAKEN FROM TRANSFORMER FLOAT.

IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED SCALE PRINT. ADJUST SCALE ACCORDINGLY.

US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. _____

CONTRACTOR _____

CITY _____

RECOMMENDED: _____

DATE: _____

APPROVED: _____

DESIGN ENGINEER _____

NAME CONTRACTOR _____

SYN. ACTION

DESCRIPTION

DATE

APPROVED

DESIGNED: RCT
DRAWN: RCT
REVIEWED: K. EISSES
CHECKED: B. SEXAUER
SUBMITTED: B. SEXAUER
CHIEF, CIVIL ENGINEERING BRANCH

DATE: 14 FEB 2014
DWG SCALE: AS NOTED
PLOT SCALE: 1/2
FILE: C:\ENGINEERING\PROJECTS\ALASKA\AKV292\AKV292.DWG
DRAWING #: 2-SEL-163-10-01

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

AKV292

P2 No. 326049

SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
CIVIL
PHOTOS
MISCELLANEOUS DETAIL PHOTOS FROM APRIL 2012

REFERENCE NUMBER:
C-902

SHEET 9 OF 43

BID SET

Drawing p:8203 seldovia harbor500 CADD560 workingakv292 - standard, 20150209\C-903 UTILITY PHOTOS FROM APRIL 2012.dwg last saved on 3/11/2015 10:14 AM was plotted by Balzarini, Charles on 3/12/2015 11:07 AM



PHOTO 19: ANGLE POINT IN WEST MARGINAL FLOAT. TAKEN LOOKING NORTHWEST. NOTE LOW VOLTAGE PEDESTAL, WOODEN PILE, HIGH VOLTAGE PEDESTAL AND TRANSFORMER.



PHOTO 22: TYPICAL EXISTING TIMBER LIGHT POLE TO BE RE-USED.



PHOTO 25: ELECTRICAL PANEL D.



PHOTO 20: ELECTRICAL JUNCTION BOX NEAR BASE OF GANGWAY.



PHOTO 23: TYPICAL ELECTRICAL POWER FEED AND JUNCTION BOX AT BASE OF TIMBER LIGHT POLE.



PHOTO 26: ELECTRICAL PANEL P.



PHOTO 21: TYPICAL HIGH VOLTAGE PEDESTAL.



PHOTO 24: TYPICAL LIGHT FIXTURE AND BIRD SPIKES AT TOP OF TIMBER LIGHT POLES.



PHOTO 27: TRANSFORMER AND ELECTRICAL PANEL TF.

US ARMY CORPS
OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. _____

CONTRACTOR _____

CITY _____

RECOMMENDED: _____

DATE: _____

STATE _____

APPROVED: _____

DESIGN ENGINEER _____

PRIME CONTRACTOR _____

SYN. ACTION

DESCRIPTION

DATE

APPROVED

DATE: 14 FEB 2014

DWG SCALE: AS NOTED

PLOT SCALE: 12

FILE: C:\UTILITY\PHOTOS\APRIL 2012

DRAWING #: 2-SEL-163-10-01

DESIGNED: RCT

DRAWN: RCT

REVIEWED: K. EISES

CHECKED: B. SEXAUER

SUBMITTED: B. SEXAUER

CHIEF: TERESA BLANCH BRANCH

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

AKV292

P2 No. 326049


SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
PHOTOS
UTILITY PHOTOS FROM APRIL 2012

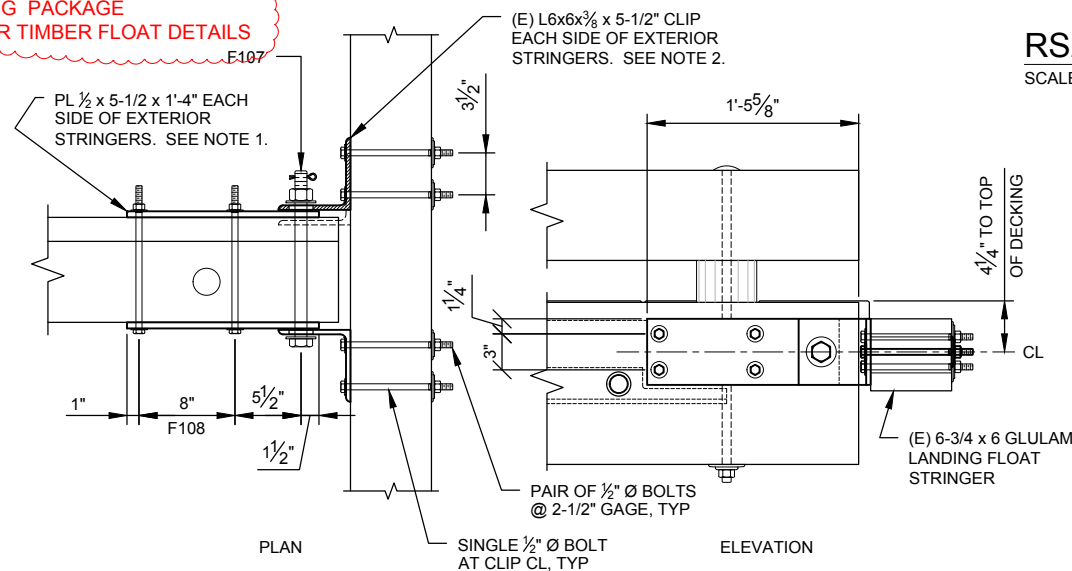
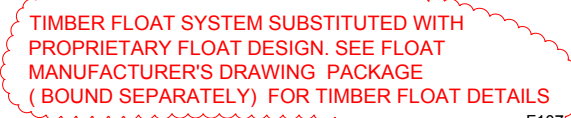
REFERENCE
NUMBER:
C-903

SHEET 10 OF 43

BID SET

IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED
SCALE PRINT. ADJUST SCALE ACCORDINGLY.

 US ARMY CORPS OF ENGINEERS ALASKA DISTRICT	
CONTRACT NO. _____ CONTRACTOR _____ CITY _____ STATE _____ RECOMMENDED _____ APPROVED _____ DATE _____ <small>FOR OFFICIAL USE ONLY</small>	CONTRACT NO. _____ CONTRACTOR _____ CITY _____ STATE _____ RECOMMENDED _____ APPROVED _____ DATE _____ <small>FOR OFFICIAL USE ONLY</small>
WEST MARGINAL FLOAT REPLACEMENT STRUCTURAL SECTIONS MARGINAL FLOATS	
REFERENCE NUMBER: S-301	
SHEET 12 OF 43	



M-1 CONNECTION TO LANDING FLOAT 
SCALE: 1-1/2" = 1'-0" S-401 | S-401

FLOAT TYPE M-1 FASTENER TABLE								
MARK No.	DESCRIPTION	Ø	LENGTH	THREAD LENGTH	WASHER(S)	QUANTITY	USE	COMMENT
F101	LAG SCREW	⅜"	6"	3 ½"	USS	32	RUB STRIP TO EXTERIOR STRINGER	FULL BODY DIAMETER, ⅝" DEEP x 1 ⅜" Ø CSC
F102	ECONOMY HEAD BOLT	¼"	26"	2" MIN, 4 ½" MAX	MIW	8	BULLRAIL TO EXTERIOR STRINGER	UHMW-PE SCUPPER BLOCKS
F103	ECONOMY HEAD BOLT	½"	10"	2" MIN, 3" MAX	NONE	24	DIAPHRAGM FRAME TO EXTERIOR STRINGERS	⅝" DEEP x 2" Ø CSC
F104	HEX HEAD BOLT	½"	7"	1 ½" MIN, 2" MAX	NONE	12	DIAPHRAGM FRAME TO INTERIOR STRINGER	
F105	HEX HEAD BOLT	⅜"	4"	1"	2 x USS	40	FLOAT DRUMS TO DIAPHRAGM FRAME THRU PLYWOOD	
F106	CSC BOLT (SLOTTED FLAT HEAD)	½"	2-1/2"	1 ¼" MIN, 1 ½" MAX	USS	72	PLYWOOD DIAPHRAGM TO STEEL DIAPHRAGM FRAME	INSTALL W/ HEAD FLUSH W/ FACE OF PLYWOOD
F107	HEX HEAD BOLT W/ COTTER KEY	1"	14"	2 ½"	2 x USS	2	HINGED CONNECTION TO LANDING FLOAT	OK TO USE EXISTING W/ NEW SS COTTER KEY
F108	HEX HEAD BOLT	½"	11"	1 ½" MIN, 3" MAX	2 x USS	8	HINGE PLATES TO EXTERIOR STRINGERS	
F109	ECONOMY HEAD BOLT	¾"	14"	2 ½" MIN, 5" MAX	MIW	3	INTERIOR STRINGER MODULE JOINT	ASTM A449 TYPE 1, ½" DEEP x 3" Ø CSC
F123	ECONOMY HEAD BOLT	¾"	26"	2" MIN, 3" MAX	MIW	6	EXTERIOR STRINGER MODULE JOINT	2 EACH 4" Ø SPLIT RINGS AT LAPPED JOINTS D-SPLIT JOINTS NOT

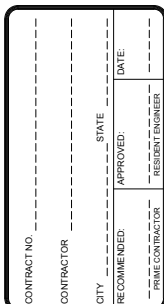
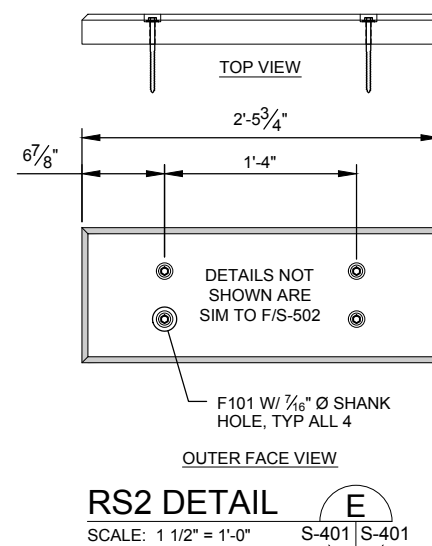
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
1. CONTRACTOR SHALL HAVE THE OPTION OF USING THE EXISTING HINGE PLATES. THE CONTRACTOR SHALL BEAR THE FULL RESPONSIBILITY FOR FIELD VERIFYING ALL ASSOCIATED DIMENSIONS SHOWN AND SHALL REMAIN RESPONSIBLE FOR THE FIT OF SAME. NEW BOLTS THRU STRINGERS ARE REQ'D.
2. MOVE INTERIOR CLIP ANGLE @ BOTH EXTERIOR STRINGERS 1-1/4" INBOARD FOR NEW WIDER EXTERIOR STRINGERS. USE OF EXISTING BOLTS IS OK.

DAPPED JOINTS
IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED
SCALE PRINT. ADJUST SCALE ACCORDINGLY.

RUB STRIP SCHEDULE:

1. MODULE M-1: 2 x RS1 AND 2 x RS2
2. MODULES M-2, M-4, M-5, M-7, M-8, AND M-12 THRU M-15: 10 x RS1
3. MODULES M-3 AND M-6: 8 x RS1 AND 1 x RS3
4. MODULE M-11: 7 x RS1 AND 1 x RS3
5. MODULE M-9: 6 x RS1 AND 1 x RS4
6. MODULE M-10: 5 x RS1 AND 1 x RS5
7. MODULE M-16: 7 x RS1

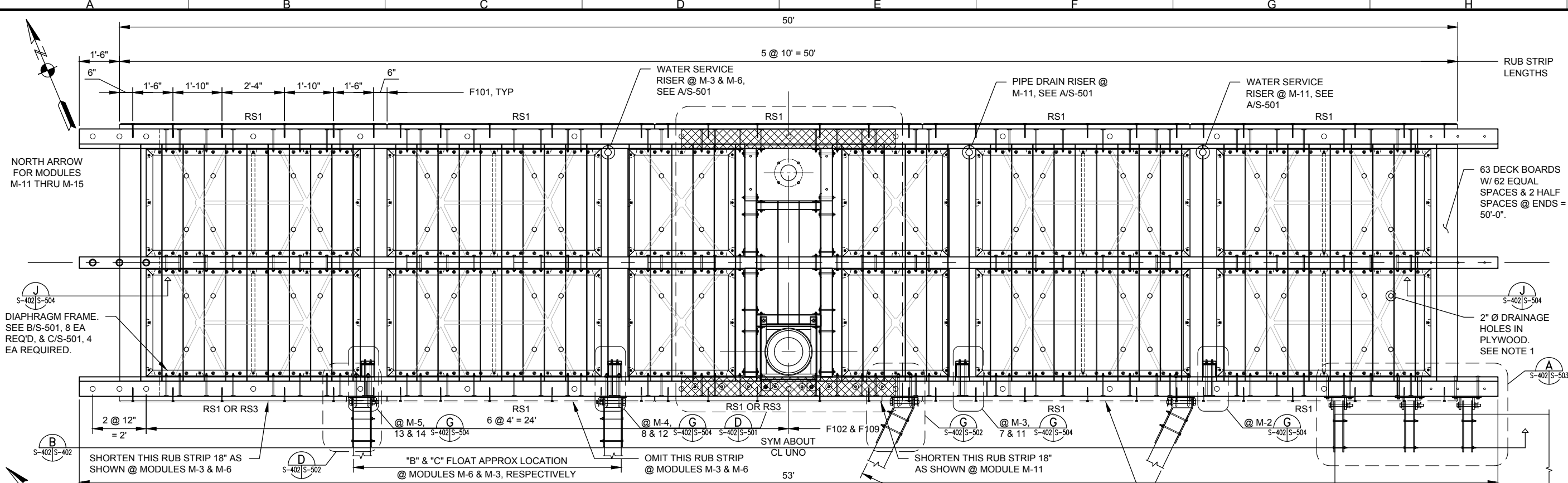
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 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ANCHORAGE, ALASKA	DESIGNED: RCT	DATE: 14 FEB 2014
	DRAWN: RCT	DWG SCALE: AS NOTED
	REVIEWED: K. EISSES	PLOT SCALE: 12
	CHEF - ENGIN. SECTION	FILE: S-401 MODULE M-1
	SUBMITTED: J. SAUCEDA	DRAWING: 2-SEL-103-10-01
	CHEF - CETO/ENG BRANCH	

SELDovia, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
STRUCTURAL
LARGE-SCALE VIEWS
MODULE M-1

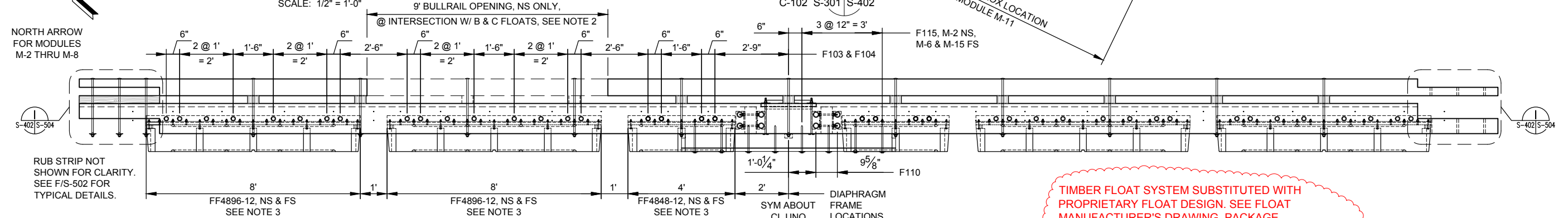
REFERENCE
NUMBER:
S-401
SHEET 13 OF 43

Drawing p:\8203 seldovia harbor\500 CADD\560 working\akv292 - standard, 20150209\500 S-402 MODULES M-2 THRU M-8 & M-11 THRU M-15.dwg last saved on 3/11/2015 3:25 PM was plotted by Balzarini, Charles on 3/12/2015 11:11 AM



MODULE M-2 THRU M-8 & M-11 THRU M-15 PLAN, TYP UNO

SCALE: 1/2" = 1'-0"



MODULE M-2 THRU M-8 & M11 - M-15 ELEVATION, TYP UNO

SCALE: 1/2" = 1'-0"

FLOAT TYPES M-2 THRU M-8 & M11 THRU M-15 FASTENER TABLE, TYPICAL UNO

MARK No.	DESCRIPTION	Ø	LENGTH	THREAD LENGTH	WASHER(S)	QUANTITY	USE	COMMENT
F101	LAG SCREW	3/8"	6"	3 1/2"	USS	120	RUB STRIP TO EXTERIOR STRINGER	FULL BODY DIAMETER, 5/8" DEEP x 1 3/8" Ø CSC
F102	ECONOMY HEAD BOLT	3/4"	26"	2" MIN, 4 1/2" MAX	MALLEABLE IRON (MIW)	22	BULLRAIL TO EXTERIOR STRINGER	OMIT 2 EA @ M-3, M-6 & M-11 FOR BULLRAIL GAPS
F103	ECONOMY HEAD BOLT	1/2"	10"	2" MIN, 3" MAX	NONE	80	DIAPHRAGM FRAME TO EXTERIOR STRINGERS	3/8" DEEP x 2" Ø CSC
F104	HEX HEAD BOLT	1/2"	7"	1 1/2" MIN, 2" MAX	NONE	40	DIAPHRAGM FRAME TO INTERIOR STRINGER	
F105	HEX HEAD BOLT	3/8"	4"	1"	2 x USS	128	FLOAT DRUMS TO DIAPHRAGM FRAME THRU PLYWOOD	
F106	CSC BOLT (SLOTTED FLAT HEAD)	1/2"	2-1/2"	1 1/4" MIN, 1 1/2" MAX	USS	240	PLYWOOD DIAPHRAGM TO STEEL DIAPHRAGM FRAME	INSTALL W/ HEAD FLUSH W/ FACE OF PLYWOOD
F109	ECONOMY HEAD BOLT	3/4"	14"	2 1/2" MIN, 5" MAX	MIW	3	INTERIOR STRINGER MODULE JOINT	ASTM A449 TYPE 1, 1/2" DEEP x 3" Ø CSC
F110	ECONOMY HEAD BOLT	1/2"	10"	1 1/2" MIN, 3 1/2" MAX	USS	40 (20 @ M-2)	CLIP ANGLES TO EXTERIOR STRINGERS	3/8" DEEP x 2" Ø CSC, ASTM A449 TYPE 1
F111	HEX HEAD BOLT	1/2" (5/8")	7" (8")	1 1/2" MIN, 2 1/2" MAX	2 x USS	70 (30 @ M-2)	FRAMING THRU PAIR OF CLIP ANGLES	ASTM A449 TYPE 1 (SEE H/S-501 FOR 5 x F111A)
F112	HEX HEAD BOLT	1/2"	7"	1 1/2" MIN, 2 1/2" MAX	1 x USS & 1 x PLATE	20 (40 @ M-2)	FRAMING THRU SINGLE CLIP ANGLE	SEE F/S-504, ASTM A449 TYPE 1
F113	HEX HEAD BOLT	5/8"	14"	2" MIN, 4 1/2" MAX	MIW	2	MOORING RING TO FRAMING - INTERIOR SIDE	
F114	ECONOMY HEAD BOLT	5/8"	16"	2 3/4" MIN, 5 1/2" MAX	NONE	2	MOORING RING TO EXTERIOR STRINGER	INSTALL W/ HEAD DOWN & NUT UP
F115	LAG SCREW	5/8"	12" (18" @ M-2)	6"	MIW	8	FLOTATION BILLET TO EXTERIOR STRINGER	M-2, M-6, & M-15 ONLY
F120	HEX HEAD BOLT	1/2"	5"	1 1/4" MIN, 2" MAX	2 x USS	4 (OMIT @ M-2)	BLOCKING TO PAIR OF CLIP ANGLES	
F121	HEX HEAD BOLT	1/2"	7"	1 1/2" MIN, 2 1/2" MAX	1 x USS & 1 x MIW	8 (OMIT @ M-2)	BLOCKING CLIP ANGLE TO SILL	
F122	HEX HEAD BOLT	3/4"	15"	2" MIN, 4 1/2" MAX	1 x USS & 1 x MIW	4 (OMIT @ M-2)	LIGHT POLE BASE PLATE TO SILLS	ASTM A449 TYPE 1
F123	ECONOMY HEAD BOLT	3/4"	26"	2" MIN, 3" MAX	MIW	6	EXTERIOR STRINGER MODULE JOINT	2 EACH 4" Ø SPLIT RINGS AT LAP JOINTS

TIMBER FLOAT SYSTEM SUBSTITUTED WITH PROPRIETARY FLOAT DESIGN. SEE FLOAT MANUFACTURER'S DRAWING PACKAGE (BOUND SEPARATELY) FOR TIMBER FLOAT DETAILS

NOTES:

- PROVIDE 8 PER SHEET FOR 8' SHEETS & 4 PER SHEET FOR 4' AND 18" SHEETS (SEE S-405). SPACED @ 2" LATERALLY & ALIGNED WITH FLOAT DRUM DRAINAGE SLOTS LONGITUDINALLY. TYPICAL FOR ALL FLOAT MODULES.
- CONTRACTOR'S FIELD SURVEY, SEE NOTE 1 ON C-102, SHALL DETERMINE FINAL LOCATION FOR ITEMS THAT REQUIRE COORDINATION WITH EXISTING ELEMENTS OF THE HARBOR FLOATS TO REMAIN.
- ACE ROTO-MOLDED COMMERCIAL FLOAT MODEL NUMBER, TYPICAL. SEE SPEC SECTION 06 13 33.

BID SET

US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. _____
CONTRACTOR _____
CITY _____ STATE _____
RECOMMENDED _____
DATE _____

DESIGNED: RCT
DRAWN: RCT
REVIEWED: K. ESSES
SUBMITTED: J. SAUCEDA
CHIEF: J. SAUCEDA

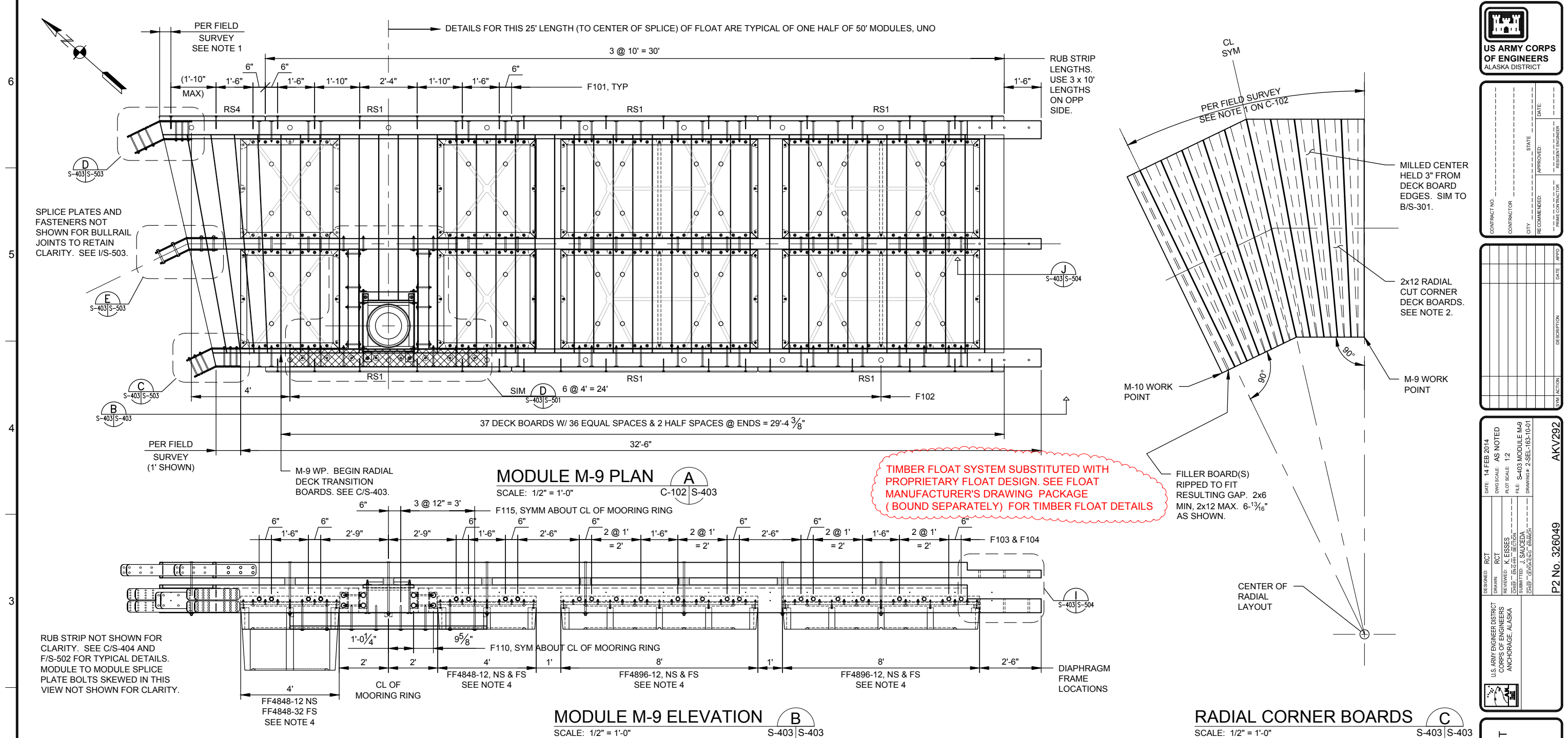
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DATE: 14 FEB 2014
DWG SCALE: AS NOTED
PLOT SCALE: 1/2"
FILE: S402\MARGINAL\FLOAT REPLACEMENT
DRAWING #: 2-SEL-163-10-01

AKV292
P2 No. 326049

SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
STRUCTURAL
LARGE-SCALE VIEWS
MODULES M-2 THRU M-8 & M-11 THRU M-15

REFERENCE NUMBER:
S-402
SHEET 14 OF 43



FLOAT TYPE M-9 FASTENER TABLE								
MARK No.	DESCRIPTION	Ø	LENGTH	THREAD LENGTH	WASHER(S)	QUANTITY	USE	COMMENT
F101	LAG SCREW	⅜"	6"	3 ½"	USS	78 ±	RUB STRIP TO EXTERIOR STRINGER	FULL BODY DIAMETER, ⅝" DEEP x 1 ⅜" Ø CSC
F102	ECONOMY HEAD BOLT	¾"	26"	2" MIN, 4 ½" MAX	MALLEABLE IRON (MIW)	15	BULLRAIL TO EXTERIOR STRINGER	UHMW-PE SCUPPER BLOCKS
F103	ECONOMY HEAD BOLT	½"	10"	2" MIN, 3" MAX	NONE	48	DIAPHRAGM FRAME TO EXTERIOR STRINGERS	⅜" DEEP x 2" Ø CSC
F104	HEX HEAD BOLT	½"	7"	1 ½" MIN, 2" MAX	NONE	24	DIAPHRAGM FRAME TO INTERIOR STRINGER	
F105	HEX HEAD BOLT	⅜"	4"	1"	2 x USS	80	FLOAT DRUMS TO DIAPHRAGM FRAME THRU PLYWOOD	
F106	CSC BOLT (SLOTTED FLAT HEAD)	½"	2-1/2"	1 ¼" MIN, 1 ½" MAX	USS	144	PLYWOOD DIAPHRAGM TO STEEL DIAPHRAGM FRAME	INSTALL W/ HEAD FLUSH W/ FACE OF PLYWOOD
F110	ECONOMY HEAD BOLT	½"	10"	1 ½" MIN, 3 ½" MAX	USS	20	MOORING RING CLIP ANGLE TO EXTERIOR STRINGER	⅜" DEEP x 2" Ø CSC, ASTM A449 TYPE 1
F111	HEX HEAD BOLT	½"	7"	1 ½" MIN, 2½" MAX	2 x USS	30	MOORING RING FRAMING THRU PAIR OF CLIP ANGLES	ASTM A449 TYPE 1
F112	HEX HEAD BOLT	½"	7"	1 ½" MIN, 2½" MAX	1 x USS & 1 x PLATE	40	MOORING RING FRAMING THRU SINGLE CLIP ANGLE	SEE F/S-504, ASTM A449 TYPE 1
F113	HEX HEAD BOLT	⅝"	14"	2" MIN, 4 ½" MAX	MIW	2	MOORING RING TO FRAMING - INTERIOR SIDE	
F114	ECONOMY HEAD BOLT	⅝"	16"	2 ¾" MIN, 5 ½" MAX	NONE	2	MOORING RING TO EXTERIOR STRINGER	INSTALL W/ HEAD DOWN & NUT UP
F115	LAG SCREW	⅝"	14"	6"	MIW	8	FLOTATION BILLET TO EXTERIOR STRINGER @ MOORING RING	
F116	CSC BOLT (SLOTTED FLAT HEAD)	½"	10"	1½" MIN, 3" MAX	NONE	96	CORNER SPLICE PLATES TO EXTERIOR STRINGERS	ASTM A449 TYPE 1, CSC HEAD FLUSH IN STL PL
F117	HEX HEAD BOLT	¾"	7"	2" MIN, 2½" MAX	NONE	8	CORNER SPLICE PLATE TO INTERIOR STRINGER	ASTM A449 TYPE 1
F118	HEX HEAD BOLT	¾"	8"	2" MIN, 3" MAX	NONE	24	CORNER SPLICE PLATES TO BULLRAILS	ASTM A449 TYPE 1

NOTES:

1. SEE NOTE 1 ON C-102. DIMENSION IS TO THE OUTER CORNER OF THE STRINGER (SHOWN AS 5 ½"). INCREASE RS4 LENGTH AS REQ'D FOR CORNER PER FIELD SURVEY. IF GREATER THAN 8", CHANGE LAST F101 DIMENSION SHOWN AS (1'-10" MAX) TO (10") AND ADD ANOTHER VERTICAL PAIR OF F101's WITHIN 8" OF END OF STRINGER. IF LESS THAN 2" MOVE LAST VERTICAL PAIR OF F101's BACK TO NO MORE THAN 8" FROM END OF RUB STRIP.
2. 10, RADIALLY LAYED OUT, DECK BOARDS WITH 9 x ¼" SPACES & 2 x ½" HALF-SPACES @ ENDS, PLUS THE FILLER BOARD(S) SHOWN, FILLS THE CORNER FROM M-9 WORK POINT TO M-10 WORK POINT. GAPS ARE ¼", NOT RADIAL. CUT RADIAL CORNER BOARDS FROM 2x12 DECKING PREPARED AND PLACED SIMILAR TO B/S-301 AS APPLICABLE. EACH OF THE 10 RADIAL ANGLES SHALL BE EQUAL.
3. MODULES M-9 & M-10 WON'T FLOAT FLAT INDIVIDUALLY.
4. ACE ROTO-MOLDED COMMERCIAL FLOAT MODEL NUMBER, TYPICAL. SEE SPEC SECTION 06 13 33.

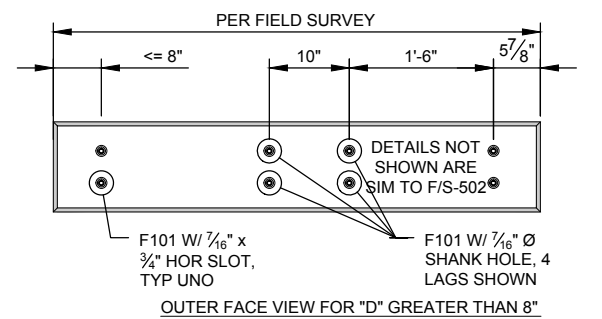
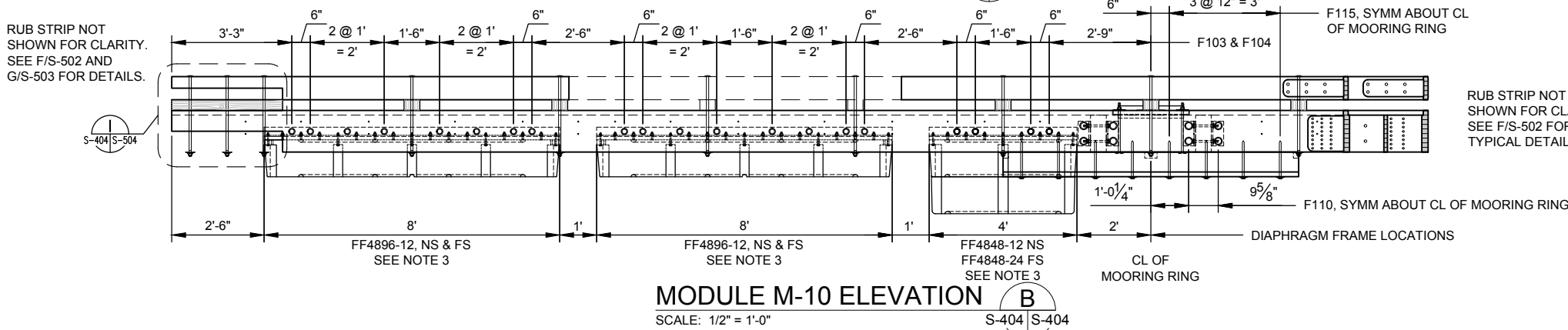
SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
STRUCTURAL
LARGE-SCALE VIEWS
MODULE M-9

REFERENCE NUMBER:
S-403
SHEET 15 OF 43

BID SET

NOT NOTE 22" x 34" IT IS AN ALTERED
ADJUST SCALE ACCORDINGLY.

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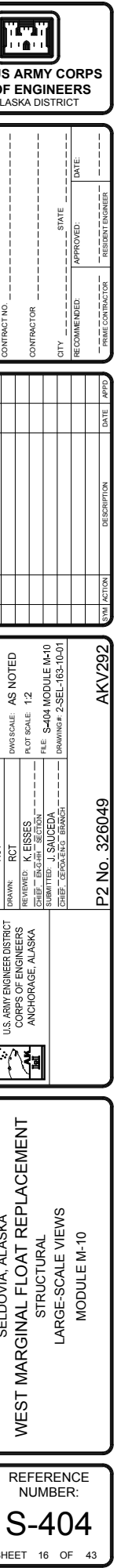
MARK No.	DESCRIPTION	Ø	LENGTH	THREAD LENGTH	WASHER(S)	QUANTITY	USE	COMMENT
F101	LAG SCREW	⅜"	6"	3-1/2"	USS	64	RUB STRIP TO EXTERIOR STRINGER	FULL BODY DIAMETER, ⅝" DEEP x 1⅝" Ø CSC
F102	ECONOMY HEAD BOLT	¾"	26"	2" MIN, 4 ½" MAX	MALLEABLE IRON (MIW)	14	BULLRAIL TO EXTERIOR STRINGER	UHMW-PE SCUPPER BLOCKS
F103	ECONOMY HEAD BOLT	½"	10"	2" MIN, 3" MAX	NONE	40	DIAPHRAGM FRAME TO EXTERIOR STRINGERS	¾" DEEP x 2" Ø CSC
F104	HEX HEAD BOLT	½"	7"	1-1/2" MIN, 2" MAX	NONE	20	DIAPHRAGM FRAME TO INTERIOR STRINGER	
F105	HEX HEAD BOLT	⅜"	4"	1"	2 x USS	64	FLOAT DRUMS TO DIAPHRAGM FRAME THRU PLYWOOD	
F106	CSC BOLT (SLOTTED FLAT HEAD)	½"	2-1/2"	1-1/4" MIN, 1 ½" MAX	USS	120	PLYWOOD DIAPHRAGM TO STEEL DIAPHRAGM FRAME	INSTALL W/ HEAD FLUSH W/ FACE OF PLYWOOD
F109	ECONOMY HEAD BOLT	¾"	14"	2-1/2" MIN, 5" MAX		3	INTERIOR STRINGER MODULE JOINT	ASTM A449 TYPE 1, ½" DEEP x 3" CSC
F110	ECONOMY HEAD BOLT	½"	10"	1 ½" MIN, 3½" MAX	USS	40	CLIP ANGLES TO EXTERIOR STRINGERS	¾" DEEP x 2" Ø CSC, ASTM A449 TYPE 1
F111	HEX HEAD BOLT	½" (⅝")	7" (8")	1 ½" MIN, 2½" MAX	2 x USS	70	FRAMING THRU PAIR OF CLIP ANGLES	ASTM A449 TYPE 1 (SEE H/S-501 FOR 5 x F111A)
F112	HEX HEAD BOLT	½"	7"	1 ½" MIN, 2½" MAX	1 x USS & 1 x PLATE	20	FRAMING THRU SINGLE CLIP ANGLE	SEE F/S-504, ASTM A449 TYPE 1
F113	HEX HEAD BOLT	⅝"	14"	2" MIN, 4 ½" MAX	MIW	2	MOORING RING TO FRAMING - INTERIOR SIDE	
F114	ECONOMY HEAD BOLT	⅝"	16"	2 ¾" MIN, 5 ½" MAX	NONE	2	MOORING RING TO EXTERIOR STRINGER	INSTALL W/ HEAD DOWN & NUT UP
F115	LAG SCREW	⅝"	14"	6"	MIW	8	FLOTATION BILLET TO EXTERIOR STRINGER @ MOORING RING	
F120	HEX HEAD BOLT	½"	5"	1 ¼" MIN, 2" MAX	2 x USS	4	BLOCKING TO PAIR OF CLIP ANGLES	
F121	HEX HEAD BOLT	½"	7"	1 ½" MIN, 2 ½" MAX	1 x USS & 1 x MIW	8	BLOCKING CLIP ANGLE TO SILL	
F122	HEX HEAD BOLT	¾"	15"	2" MIN, 4 ½" MAX	1 x USS & 1 x MIW	4	LIGHT POLE BASE PLATE TO SILLS	ASTM A449 TYPE 1
F123	ECONOMY HEAD BOLT	¾"	26"	2" MIN, 3" MAX	MIW	6	EXTERIOR STRINGER MODULE JOINT	2 EACH 4" Ø SPLIT RINGS AT DIAPHRAGM JOINT. A

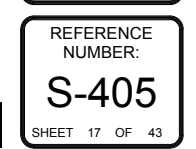
NOTES:

1. SEE NOTE 1 ON C-102. DIMENSION IS TOO THE OUTER CORNER OF THE STRINGER (SHOWN AS 2'-6"). INCREASE RS5 LENGTH AS REQ'D FOR CORNER PER FIELD SURVEY.
2. MODULES M-9 & M-10 WON'T FLOAT FLAT INDIVIDUALLY.
3. ACE ROTO-MOLDED COMMERCIAL FLOAT MODEL NUMBER, TYPICAL. SEE SPEC SECTION 06 13 33.

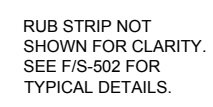
IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED
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BID SET





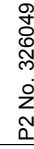
CORNER BUMPER DETAIL  SCALE: 3" = 1'-0"



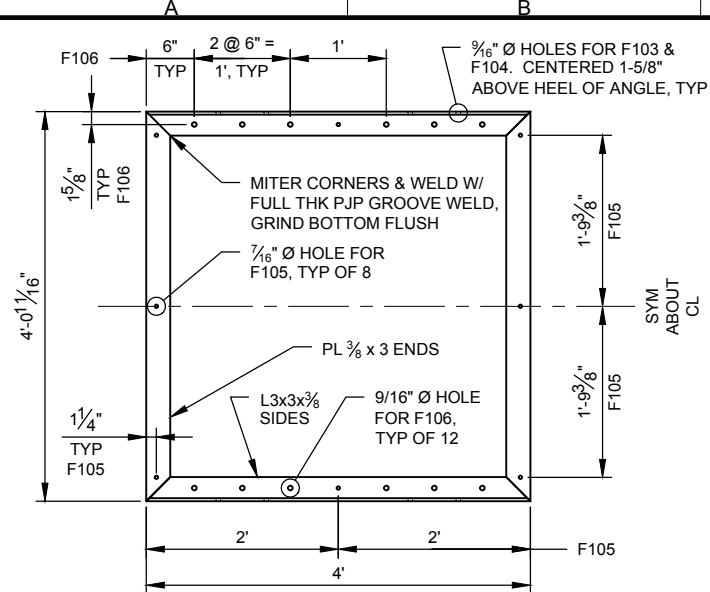
NOTE:

1. ACE ROTO-MOLDED COMMERCIAL FLOAT MODEL NUMBER, TYPICAL. SEE SPEC SECTION 06 13 33.

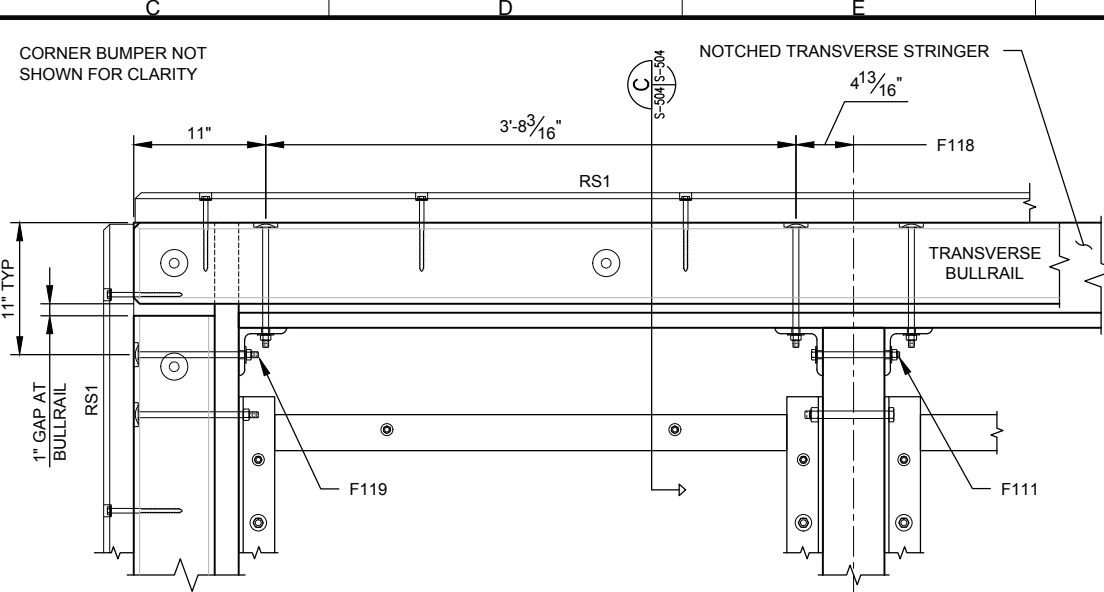
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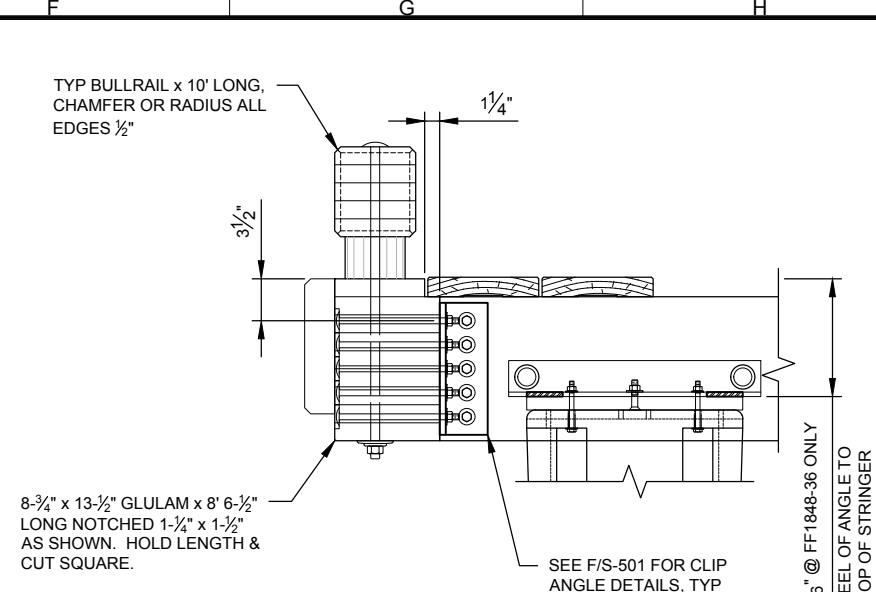




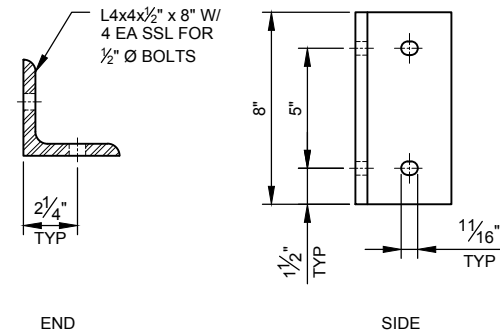
FF4848-32 DIAPHRAGM FRAME 
SCALE: 1" = 1'-0" S-403 | S-504



FLOAT M-16 END DETAIL  **B**
SCALE: 1-1/2" = 1'-0" S-405 | S-504

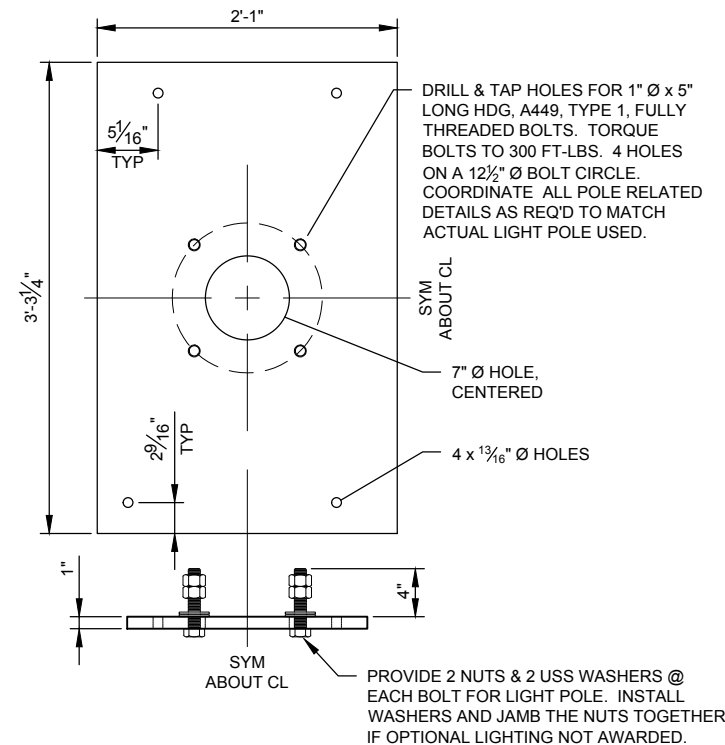


FLOAT END SECTION 
 SCALE: 1-1/2" = 1'-0" S-504 S-504



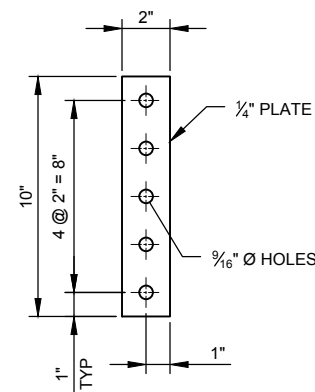
BLOCKING CLIP ANGLE DETAIL  **D**

SCALE: 3" = 1'-0" S-501 S-504



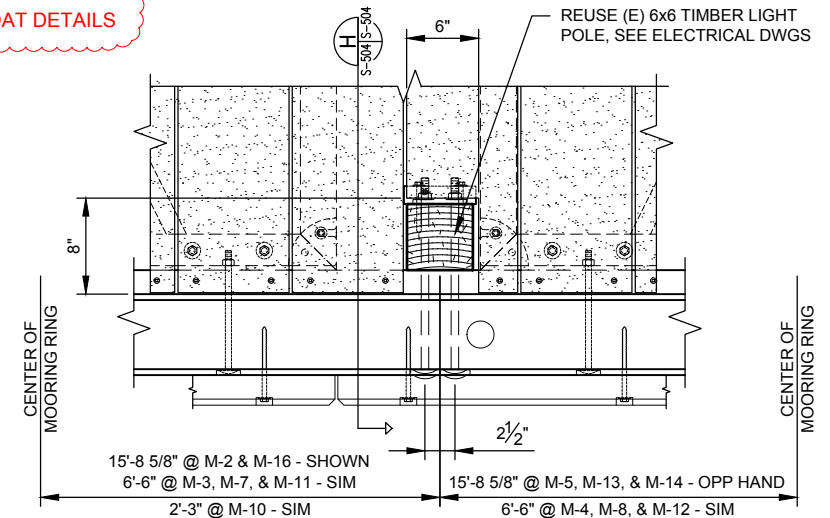
LIGHT POLE BASE PLATE DETAIL E

SCALE: 1 1/2" = 1'-0" S-501 | S-504

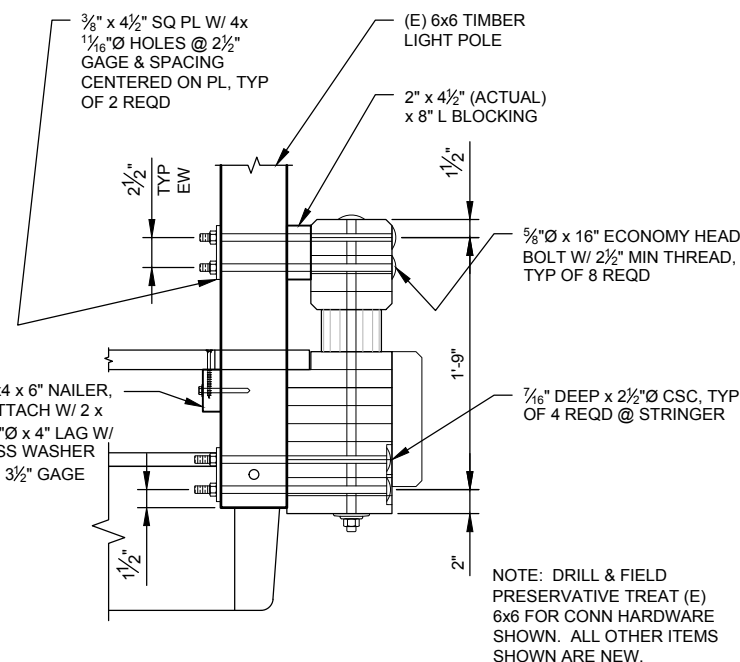


F112 PLATE WASHER 

SCALE: 3" = 1'-0" S-402 S-504



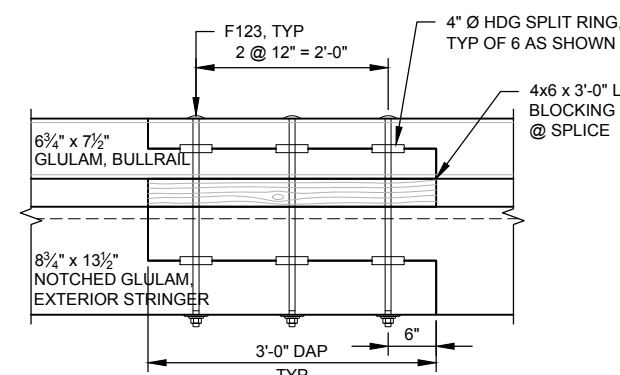
WOOD LIGHT POLE MOUNT PLAN



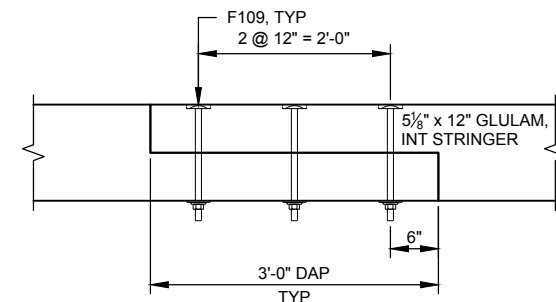
WOOD POLE CONN DETAIL

SCALE: 1-1/2" = 1'-0"

S-504 S-504

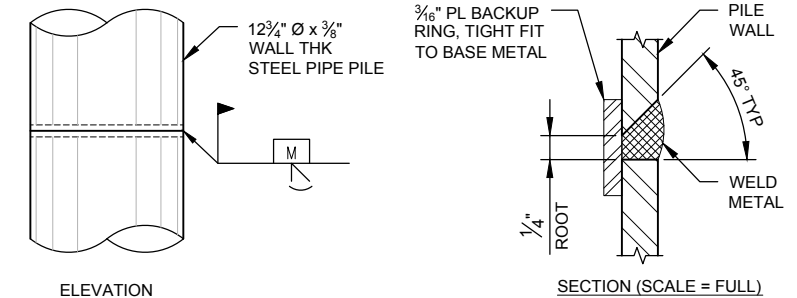


EXT STRINGER FLOAT SPLICE 
SCALE: 1" = 1'-0" S-401 S-504



INT STRINGER FLOAT SPLICE 

SCALE: 1" = 1'-0" S-401 S-504




TYPICAL PILE SPLICE WELD 
SCALE: 1 1/2" = 1'-0" G-004 | S-504

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SCALE PRINT. ADJUST SCALE ACCORDINGLY.



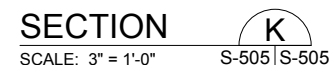
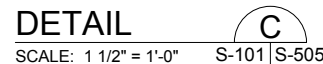
CONTRACT NO. _____	CITY _____ STATE _____	
CONTRACTOR _____	RECOMMENDED _____	APPROVED _____ DATE _____
	PRIME CONTRACTOR _____	RESIDENT ENGINEER _____

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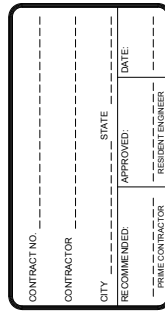
 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ANCHORAGE, ALASKA	ORGANIZATION RCT	DATE: 14 FEB 2004
	PERSONNEL RESENDER	DWG/SAC: AS NOTED
	SUBJECT REPAIRS	FILE: 12
	COMMENTS S-60M DETAILS IV DOWNHILL# 2-SEL-165-10-01	


WEST MARGINAL FLOAT REPLACEMENT
SELDOVIA, ALASKA
STRUCTURAL
DETAILS
MISC DETAILS IV

REFERENCE
NUMBER:
S-504
SHEET 21 OF 43



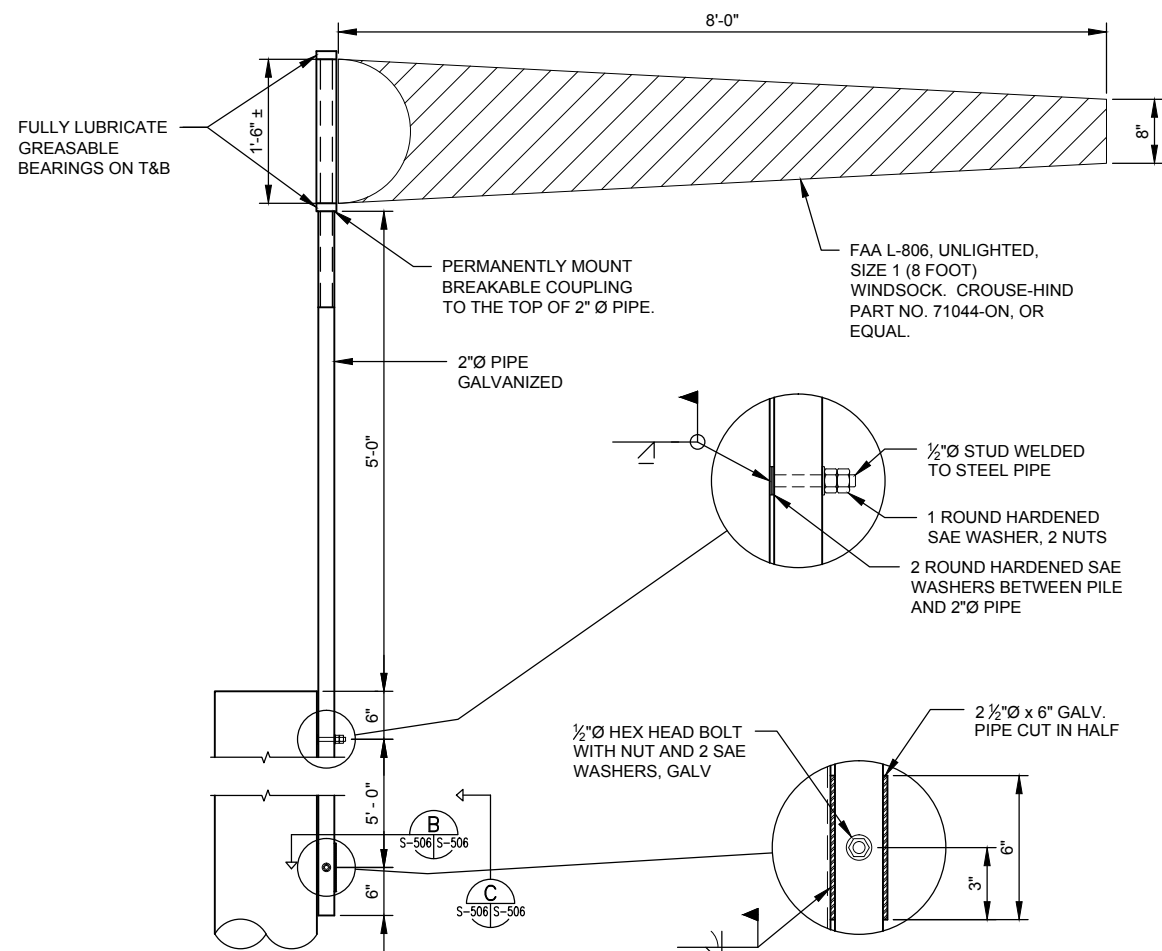
BID SET

[illegible]

 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ANCHORAGE, ALASKA	DESIGNED: RCT	DATE: 14 FEB 2014
	DRAWN: RCT	DWGSCALE: AS NOTED
REVIEWED: K. ERSSES	PLOT SCALE: 1:2	
CHIEF: B. M. "BOB" EDITION SUBMITTED: J. SAUCEDA	FILE: 8353701-00000001-0001	
CHIEF: "VERA" P. C. BRANCH	DRAWING#: 255L-163-10-01	

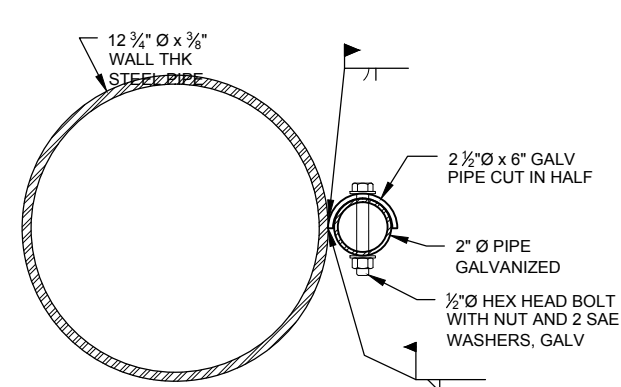
SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
STRUCTURAL
DETAILS
OPTION 1 - SEAPLANE FLOAT DETAILS I

REFERENCE
NUMBER:
S-505
SHEET 22 OF 43



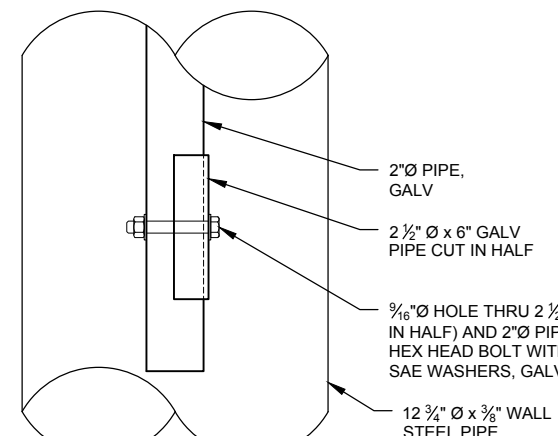
WIND CONE DETAIL  A

SCALE: 1" = 1'-0" S-101 S-506

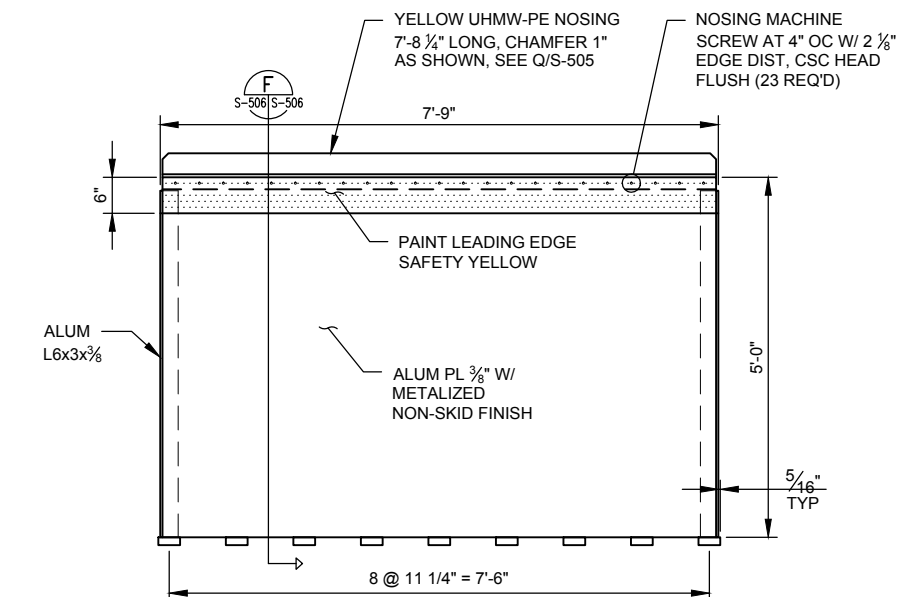


SECTION  B

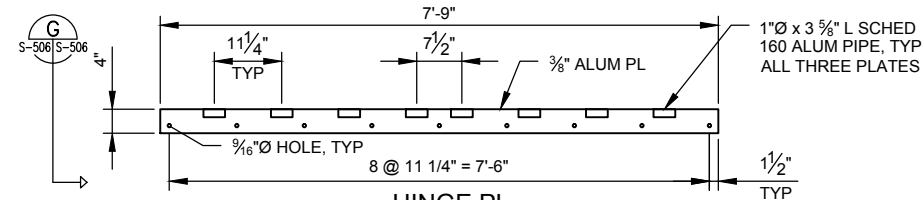
SCALE: 3" = 1'-0" S-506 S-506



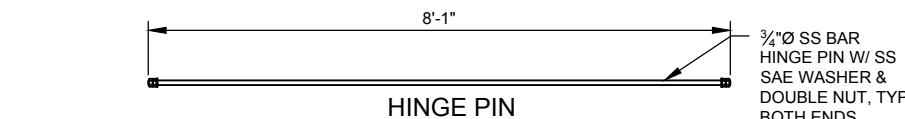
ELEVATION 
SCALE: 3" = 1'-0" S-506 | S-506



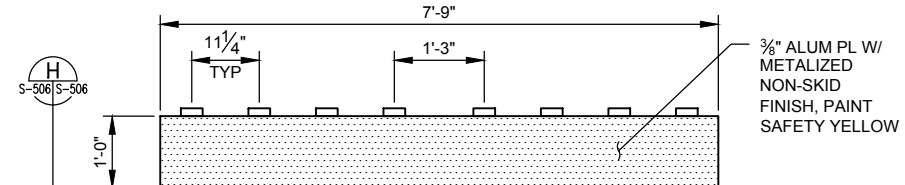
TRANSITION PL



HINGE PL



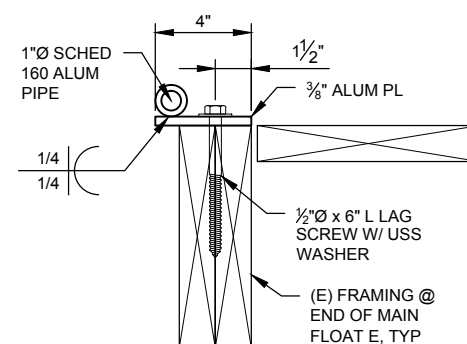
HINGE PIN



12" TRANSITION PL

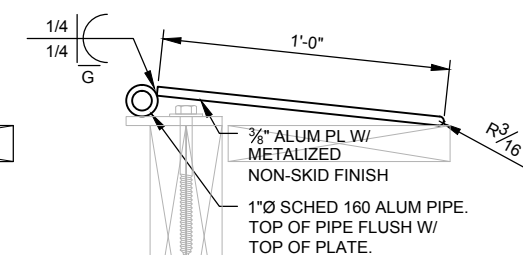
ALUMINUM TRANSITION PLATE DETAILS 

SCALE: 3/4" = 1'-0" S-101 S-506



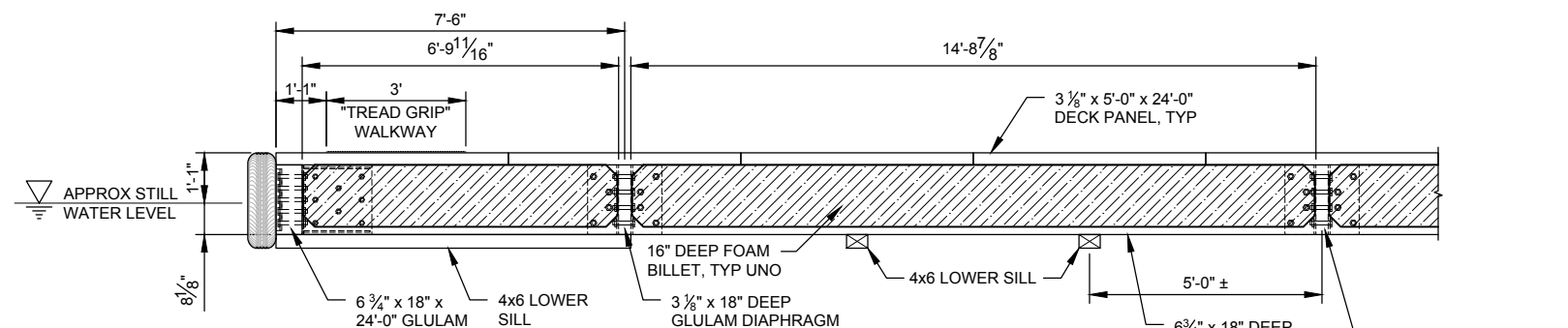
HINGE PL SECT 
SCALE: 3" = 1'-0" S-506 S-506

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SCALE PRINT. ADJUST SCALE ACCORDINGLY.

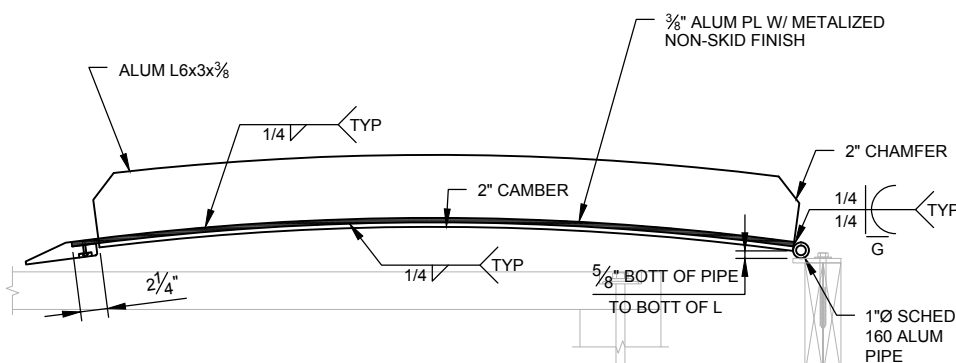


12" TRANSITION PL SECT 

SCALE: 3" = 1'-0" S-506 | S-50



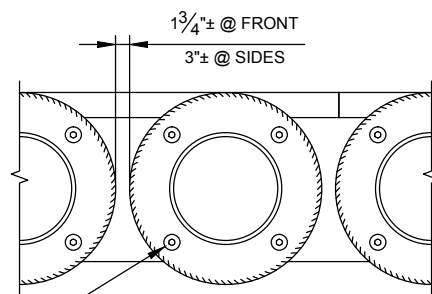
PARTIAL FLOAT ELEVATION 
SCALE: 1/2" = 1'-0" S-101 S-506



TRANSITION PL SECTION

SCALE: 1 1/2" = 1'-0"

S-506 S-506



TIRE DETAIL 
SCALE: 1" = 1'-0" S-101 S-506


- TIRE NOTES:**
1. 2"Ø HOLES THROUGH OUTSIDE FACE OF TIRES TO FACILITATE LAG BOLT INSTALLATION.
 2. TIRES SHALL BE 13" SERIES WITH A MIN ⅝" DEEP SUMMER OR ALL SEASON TREAD. NO HEAVY LUGS OR STUDS. ALL OF THE TIRES SHALL BE OF THE SAME WIDTH & DIAMETER WITH A MAX ALLOWABLE VARIATION OF ½". THE EXPOSED AREA (TREAD AREA AND ONE SIDEWALL) SHALL BE PAINTED WHITE WITH A TWO PART MARINE EPOXY OR COMPATIBLE PAINT.

1/2"Ø x 4" LAG SCREW W/ MI —
WASHER, 4 PER TIRE. VARY
SPACING TO AVOID BRACKET
BOLTS & DECK LAG SCREWS



CONTRACT NO. _____		DATE: _____	
CONTRACTOR _____		APPROVED: _____	
CITY _____	STATE _____	RECOMMENDED: _____	DATE: _____

[illegible]

 U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ANCHORAGE, ALASKA	DESIGNED: RCT DRAWN: RCT REVIEWED: K ESSES CHECKED: SUBMITAL SECTION DESIGNED BY: J. SAUCEDA CHECKED BY: GEORGE W. BRANCH	DATE: 14 FEB 2014 DWG SCALE: AS NOTED PLOT SCALE: 1/2 FILE: S87071-SPRINTMATERIAL DRAWING# 2-SEL-163-10-01
	P2 No. 326049	AKV202

SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
STRUCTURAL
DETAILS
OPTION 1 - SEAPLANE FLOAT DETAILS II

REFERENCE
NUMBER:
S-506
SHEET 23 OF 43

Drawing p:\8203 selovia harbor\500 CADD\560 working\akv292 - standard, 20150209M-001 EQUIPMENT SCHEDULE AND SCOPE OF WORK.dwg last saved on 3/11/2015 4:35 PM was plotted by Balzarini, Charles on 3/12/2015 11:24 AM

MECHANICAL SCOPE OF WORK

DEMOLITION:

1. THE CONTRACTOR SHALL CUT THE EXISTING 2" GALVANIZED AND 3/4" HDPE PIPING MAINS ATTACHED TO THE EXISTING WEST MARGINAL FLOAT. COORDINATE THE PIPE MAIN CUTS WITH THE STRUCTURAL DEMOLITION. THE EXISTING PIPES AND RISERS SHALL REMAIN WITH THE EXISTING FLOAT SEGMENTS.

2. THE CONTRACTOR SHALL REMOVE THE EXISTING 2" GALVANIZED TEE AND ELBOW WATER SUPPLY ASSEMBLY UNDER THE RAMP AS INDICATED ON THIS SHEET.

NEW WORK:

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW 2" HDPE PIPING MAIN UNDER THE NEW WEST MARGINAL FLOAT AS INDICATED ON THE SITE PLAN. NEW 2" HDPE MAIN SHALL BE CONTINUOUS WITHOUT FITTINGS EXCEPT AT RISER LOCATIONS WHERE NEW 2" HDPE BRANCHES SERVE RISERS.

2. THE CONTRACTOR SHALL PROVIDE AND INSTALL SIX NEW 2" RISERS (FOUR WATER SUPPLY RISERS, A PIPE DRAIN RISER AND A RISER AT THE END OF THE LANDING FLOAT FOR WATER SUPPLY CONNECTION) AS INDICATED ON M-100 AND M-301. NEW RISERS SHALL BE PROVIDED WITH BUT NOT LIMITED TO TEES, PIPE TRANSITIONS, SHUT OFF VALVES, HOSE BIBBS AND HOSE VALVES, AS DETAILED ON DRAWINGS.

3. THE CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 2" HDPE TEE AND ELBOW ASSEMBLY TO REPLACE THE EXISTING 2" GALVANIZED TEE AND ELBOW ASSEMBLY UNDER THE RAMP FOR THE WATER SUPPLY. SEE PHOTO ON THIS SHEET FOR DETAILS.

4. THE CONTRACTOR SHALL PROVIDE AND INSTALL A NEW HOSE FLEXIBLE CONNECTIONS TO THE NEW 2" HDPE TEE TO CONNECT TO THE NEW 2" HDPE PIPE AT THE RAMP. SEE M-301 FOR NEW TEE PIPING DETAIL.

5. THE CONTRACTOR SHALL CONNECT THE NEW WATER SUPPLY ASSEMBLY TO THE EXISTING EAST MARGINAL FLOAT PIPING. THE EAST MARGINAL FLOAT PIPING SHALL BE INDEPENDENTLY OPERATIONAL DURING AND AFTER CONSTRUCTION OF THE NEW WEST MARGINAL FLOAT.

6. THE CONTRACTOR SHALL PROVIDE A NEW 2" HDPE DRAIN RISER AT FLOAT A. SEE SHEET M-300 FOR DETAILS.

GENERAL NOTES

1. THE WATER IN THE NEW PLUMBING SYSTEM IS CONNECTED TO THE CITY FIRE HYDRANT SYSTEM. THE WATER AT THE HARBOR DOWNSTREAM OF THE BACKFLOW PREVENTER IS TO BE CONSIDERED AND LABELED NON-POTABLE.

2. THE NEW PLUMBING SYSTEM SHALL BE FOR SUMMER USE ONLY. IN THE FALL, THE NEW MAIN SHUT OFF VALVE AT THE RAMP SHALL BE SHUT. WATER REMAINING IN THE NEW PIPES SHALL BE DRAINED.

3. NEW PIPE SYSTEM DRAINING SHALL BE ACCOMPLISHED BY USING THE NEW 2" HDPE DRAIN RISER LOCATED ADJACENT TO FLOAT A RISER, SEE SHEET M-300.

4. A NEW ELECTRIC PORTABLE PUMP WITH 3/4" DIA HOSE SHALL BE USED TO DRAIN THE WATER IN THE PIPE. WATER OUTLET SHALL DISCHARGE TO THE SEA.

5. PROVIDE PROVISIONS FOR PIPE MOVEMENT AT ALL FLOAT JOINTS, SEE STRUCTURAL DRAWINGS FOR FLOAT JOINTS ON THE WEST MARGINAL FLOAT.

6. PROVIDE HYDROSTATIC TEST IN ACCORDANCE WITH THE SPECIFICATIONS.

EQUIPMENT SCHEDULE

HDPE PIPE AND PIPE FITTINGS:

2" HIGH DENSITY POLYETHYLENE PIPE, SDR 11, 200 PSI RATED, LISTED FOR PE 4710 MATERIALS. JOINTS SHALL BE FUSED AS RECOMMENDED BY THE HDPE PIPE MANUFACTURER. PROVIDE DRISCOPEX OR APPROVED EQUAL.

SHUT OFF VALVE:

2" BRASS BALL VALVE, LARGE PORT, CADMIUM PLATED VINYL INSULATED QUARTER TURN HANDLE, 500 PSI RATED, UL LISTED. PROVIDE POTTER-ROEMER INC 4400 SERIES OR APPROVED EQUAL.

DRAIN SHUT OFF VALVE:

2" FULL PORT BRONZE BALL VALVE, PLASTISOL COATED QUARTER TURN HANDLE. PROVIDE NIBCO T-585-70 OR APPROVED EQUAL.

HOSE VALVE:

1 1/2" CAST BRASS ANGLE VALVE, DOUBLE FEMALE NPT CONNECTOR, WITH RED HAND WHEEL OPERATOR, 300 PSI RATED FOR USE WITH FIRE HOSE. PROVIDE POTTER-ROEMER INC 4060 SERIES OR APPROVED EQUAL.

HOSE BIBB:

3/4" VALVE, FIP TO HOSE, 125 PSI RATED, NSF/ANSI 61-9 LISTED. PROVIDE NIBCO QT55X OR APPROVED EQUAL.

FREEZE PROTECTION VALVE:

3/4" AUTOMATIC BLEEDER/DRAIN VALVE. PROVIDE OGONTZ TYPE F VALVE OR APPROVED EQUAL.

TRANSITION PIPE:

VARIOUS SIZES SEE PIPING DETAILS FOR SIZES, 230 PSI RATED FOR USE WITH SDR 11 PE 4710 HDPE PIPE TO BRASS, BRONZE AND GALVANIZED PIPES OR FITTINGS, NSF 61 LISTED. ELOFIT OR APPROVED EQUAL.

FLEXIBLE HOSE:

2" INDUSTRIAL MEDIUM GRADE HOSE FOR USE IN MARINE ENVIRONMENT. SYNTHETIC RUBBER TUBE WITH SYNTHETIC RUBBER COVER WITH INTERNAL WIRE HELIX REINFORCEMENT. 7" MINIMUM BENDING RADIUS, 125 PSI WORKING PRESSURE RATED, -25' F TEMPERATURE RATED. SUPPLY WITH HOSE MANUFACTURER COUPLERS FOR USE WITH HDPE AND/OR GALVANIZED PIPE WITH FACTORY SWAGED ENDS. PROVIDE GOODYEAR FLEXWING WATER S&D OR EQUAL.

PORTABLE UTILITY PUMP:

RATED 11.2 GPM AT 10 FT OF HEAD. 1/2 HP, 115 V, 1 PH, 60 HZ, 7000 RPM. SELF PRIMING, 3/4" NPT INLET AND OUTLET, CAST IRON HOUSING. FURNISH WITH 10 FT OF RUBBER HOSE FOR INLET CONNECTION AND 5 FT RUBBER HOSE FOR OUTLET CONNECTION. PROVIDE DAYTON MODEL 4CB57 OR APPROVED EQUAL.

PLUMBING MATERIALS DELIVERED TO CITY OF SELDOVIA BUT WERE NOT INSTALLED AS A PART OF THIS PROJECT.



REMOVE EXISTING PIPE SUPPORT, PROVIDE NEW PIPE SUPPORT TO ACCOMMODATE NEW 2" HDPE TEE. SEE DETAIL M-300

EXISTING 2" GALVANIZED TEE UNDER THE RAMP TO BE REMOVED. PROVIDE NEW 2" HDPE TEE TO REPLACE EXISTING REMOVED 2" GALVANIZED TEE. NEW 2" HDPE TEE MARKS THE START OF THE NEW PIPING SYSTEM. SEE DETAIL ON M-300.

A EXISTING WATER SUPPLY ASSEMBLY
NOT TO SCALE

EXISTING 2" GALVANIZED RISER. PROVIDE NEW 2" HDPE RISER, TYPICAL OF 4 RISERS. SEE SITE PLAN FOR RISER LOCATIONS



EXISTING 2" GALVANIZED PIPE MAIN AND PIPE BRANCH. PROVIDE NEW 2" HDPE PIPE MAIN AND BRANCH, TYPICAL OF 4 RISERS. SEE M-100 SITE PLAN FOR RISER LOCATIONS



EXISTING 3/4" HDPE PIPE MAIN AND PIPE BRANCH. SEE M-100 SITE PLAN FOR RISER LOCATIONS

B EXISTING PIPE MAIN, BRANCH AND RISER
NOT TO SCALE

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BID SET

US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO.

CONTRACTOR

CITY

RECOMMENDED:

DATE

STATE

APPROVED:

RESIDENT ENGINEER

DATE: 14 FEB 2014

DWG SCALE: AS NOTED

PLOT SCALE: 1/2

FILE: M-100 SITE PLAN FOR RISER LOCATIONS

DRAWING #: 2-SEL-163-10-01

DESIGNED: A. DALSTOIST

DRAWN: A. DALSTOIST

REVIEWED: C. VON CUNTER

SUBMITTED: L. FABRIZIO

CHIEF, DESIGN & CONSTRUCTION

US ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
MECHANICAL
GENERAL
EQUIPMENT SCHEDULE AND SCOPE OF WORK

REFERENCE NUMBER:

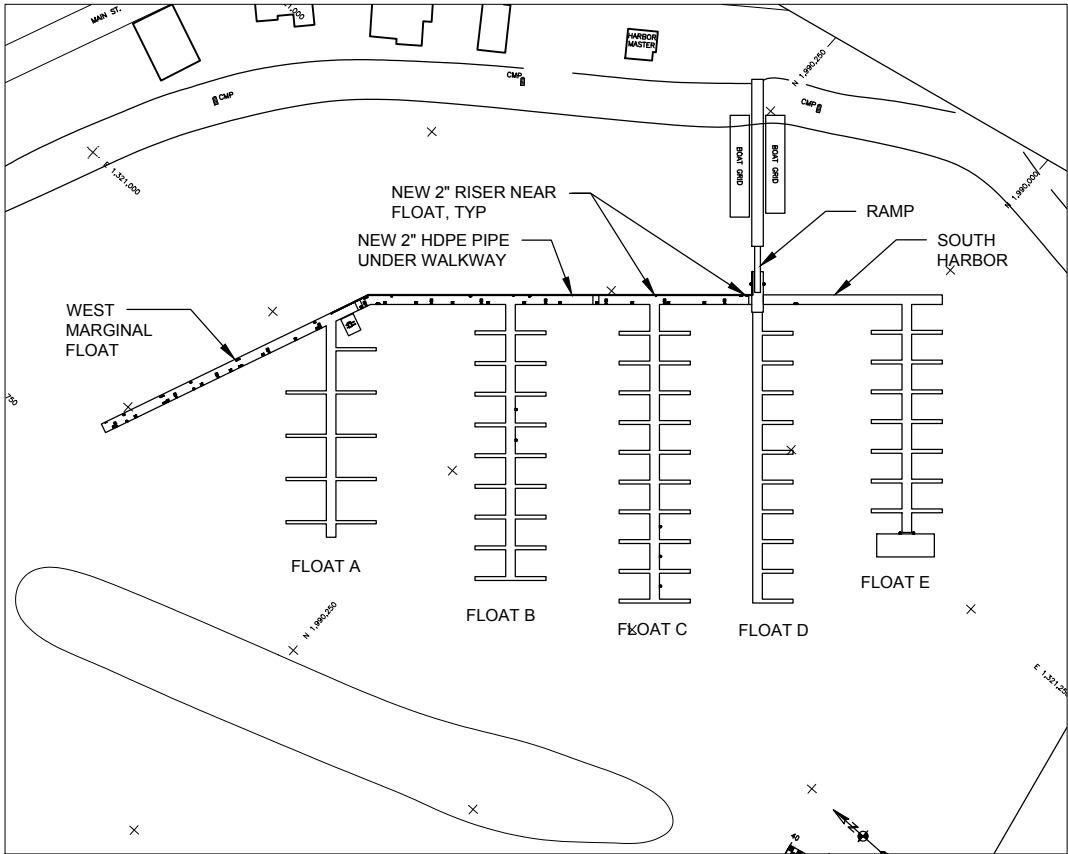
M-001

SHEET 24 OF 43

P2 No. 326049

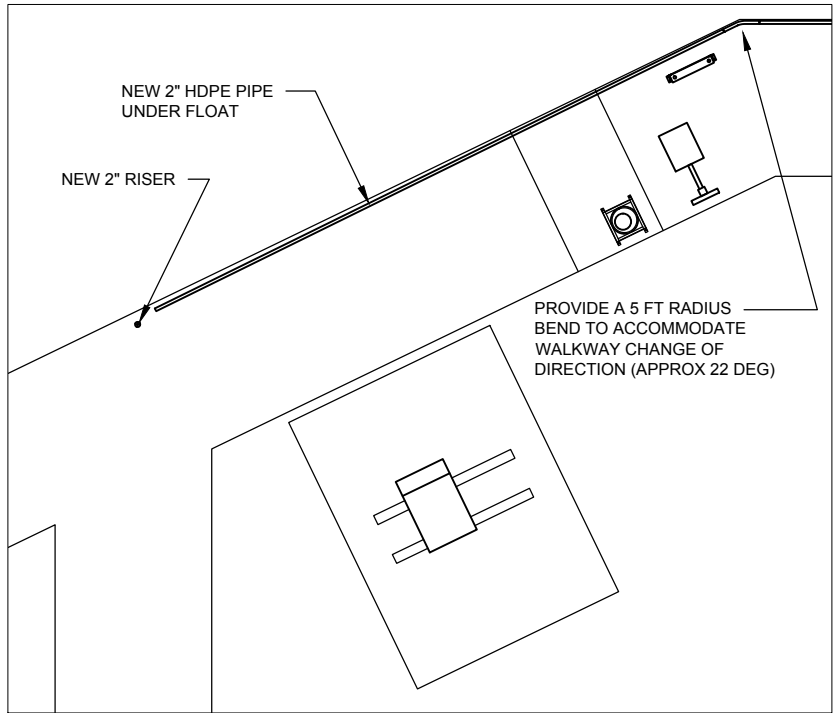
AKV292

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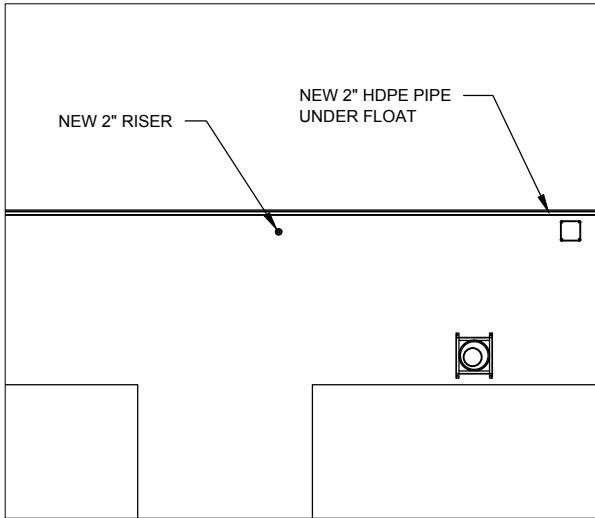


A OVERALL SITE PLAN
NOT TO SCALE

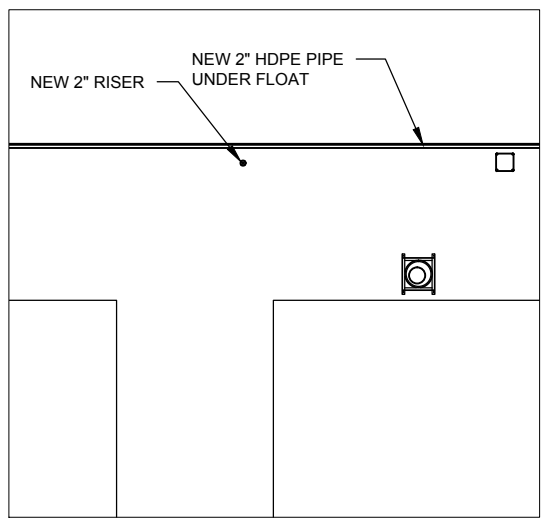
PLUMBING MATERIALS DELIVERED TO CITY OF SELDOVIA BUT WERE NOT INSTALLED AS A PART OF THIS PROJECT.



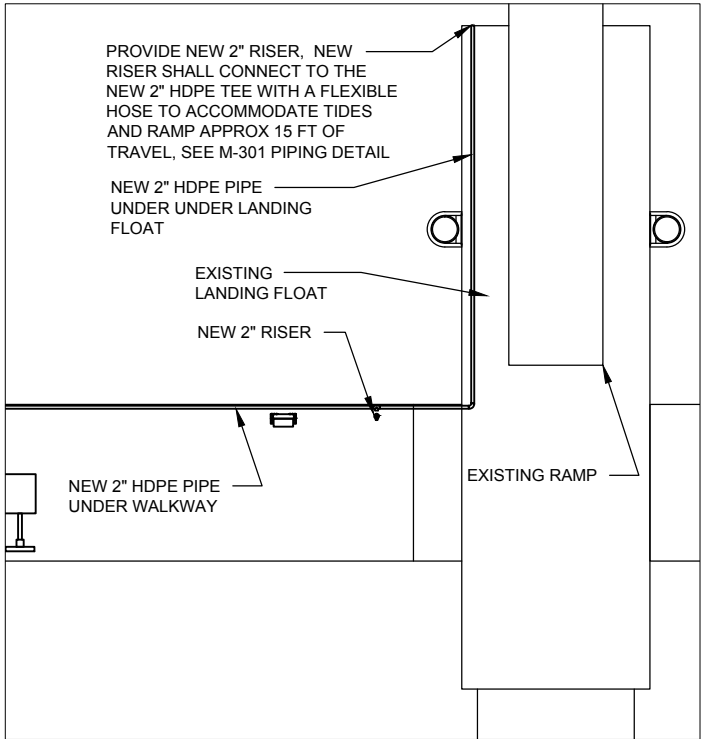
B RISER NEAR FLOAT A
NOT TO SCALE



D RISER NEAR FLOAT C
NOT TO SCALE



C RISER NEAR FLOAT B
NOT TO SCALE



E RISER NEAR FLOAT D
NOT TO SCALE

IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED SCALE PRINT. ADJUST SCALE ACCORDINGLY.

BID SET



CONTRACT NO.	DATE:
CONTRACTOR	STATE:
CITY	APPROVED:
RECOMMENDED:	DESIGN ENGINEER
PRIME CONTRACTOR	

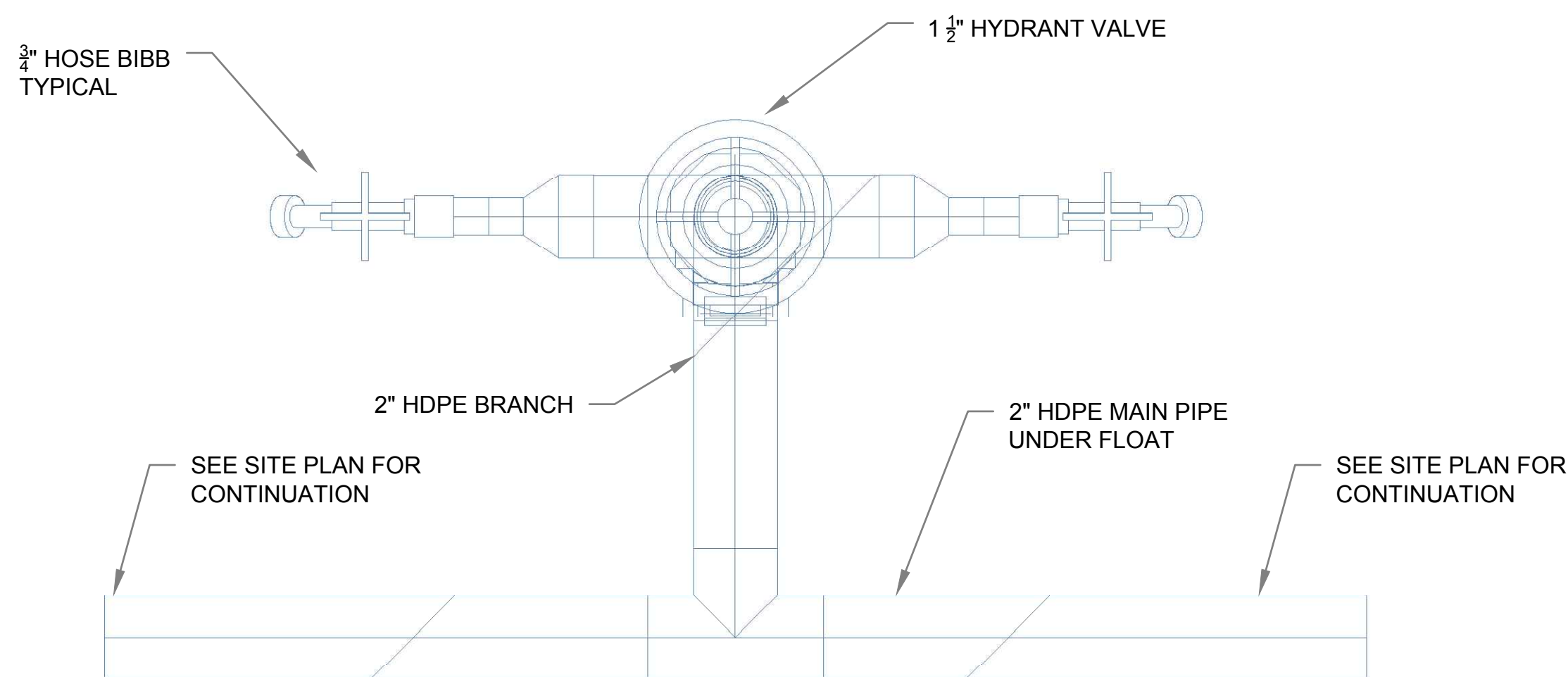
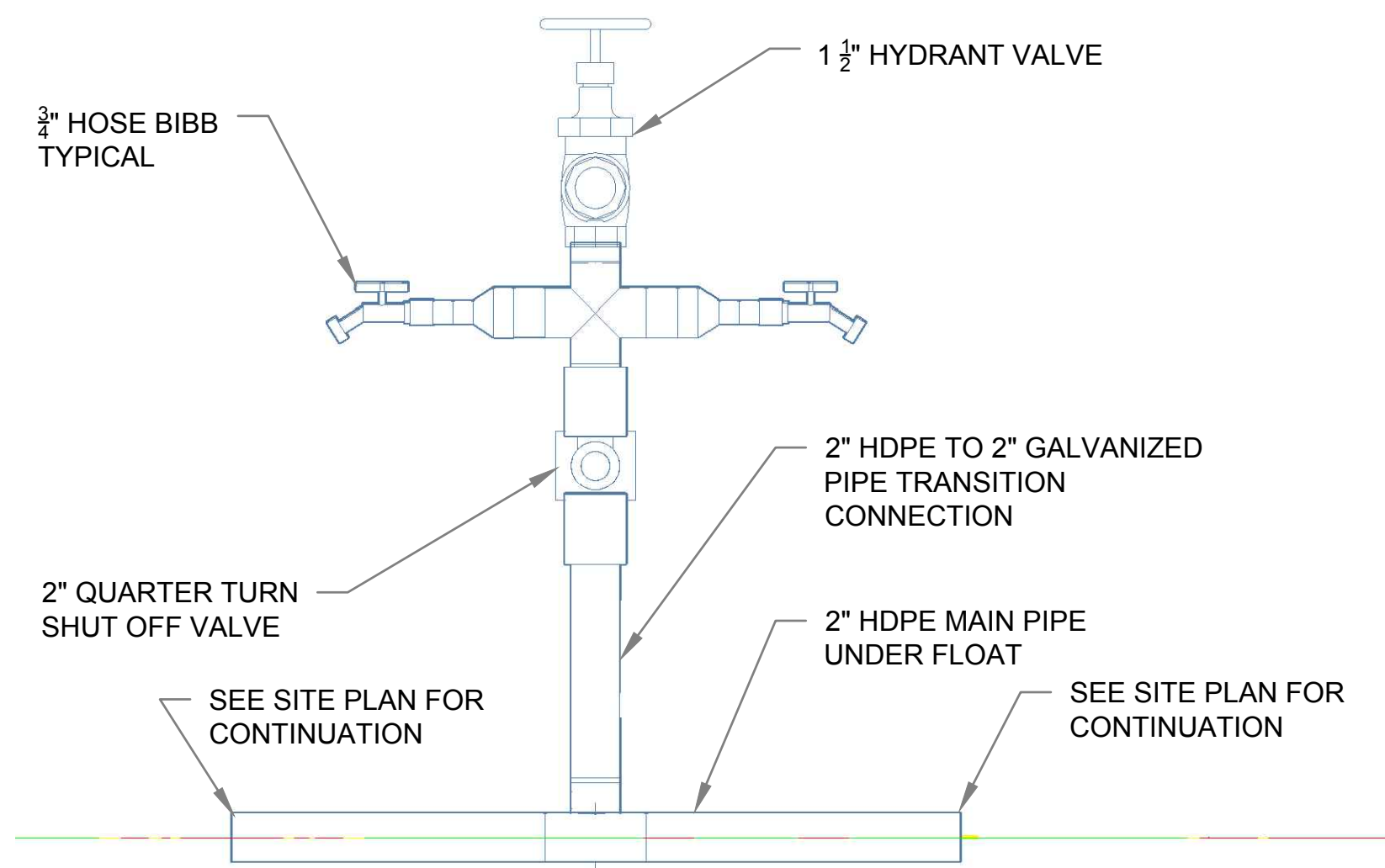
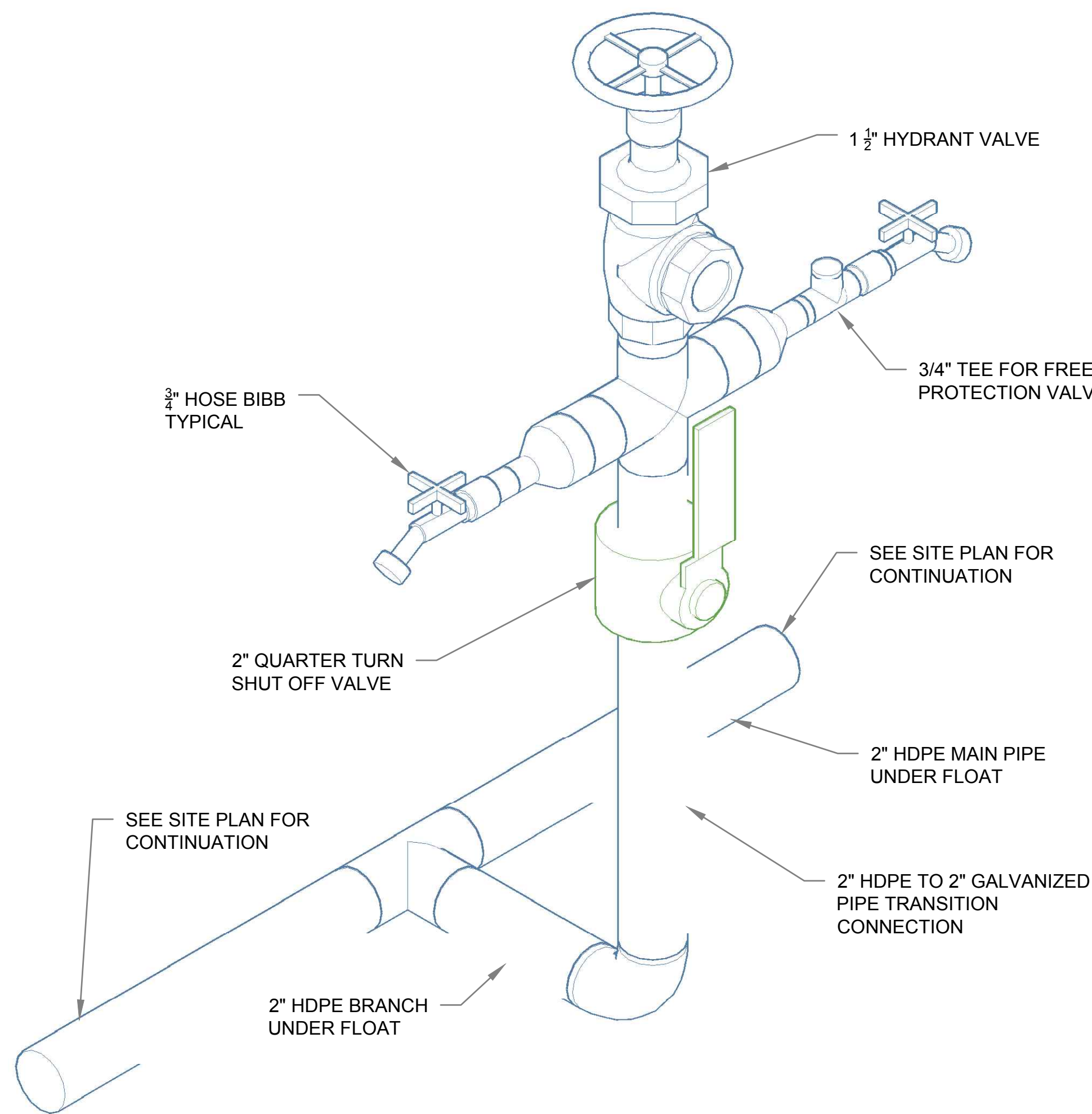
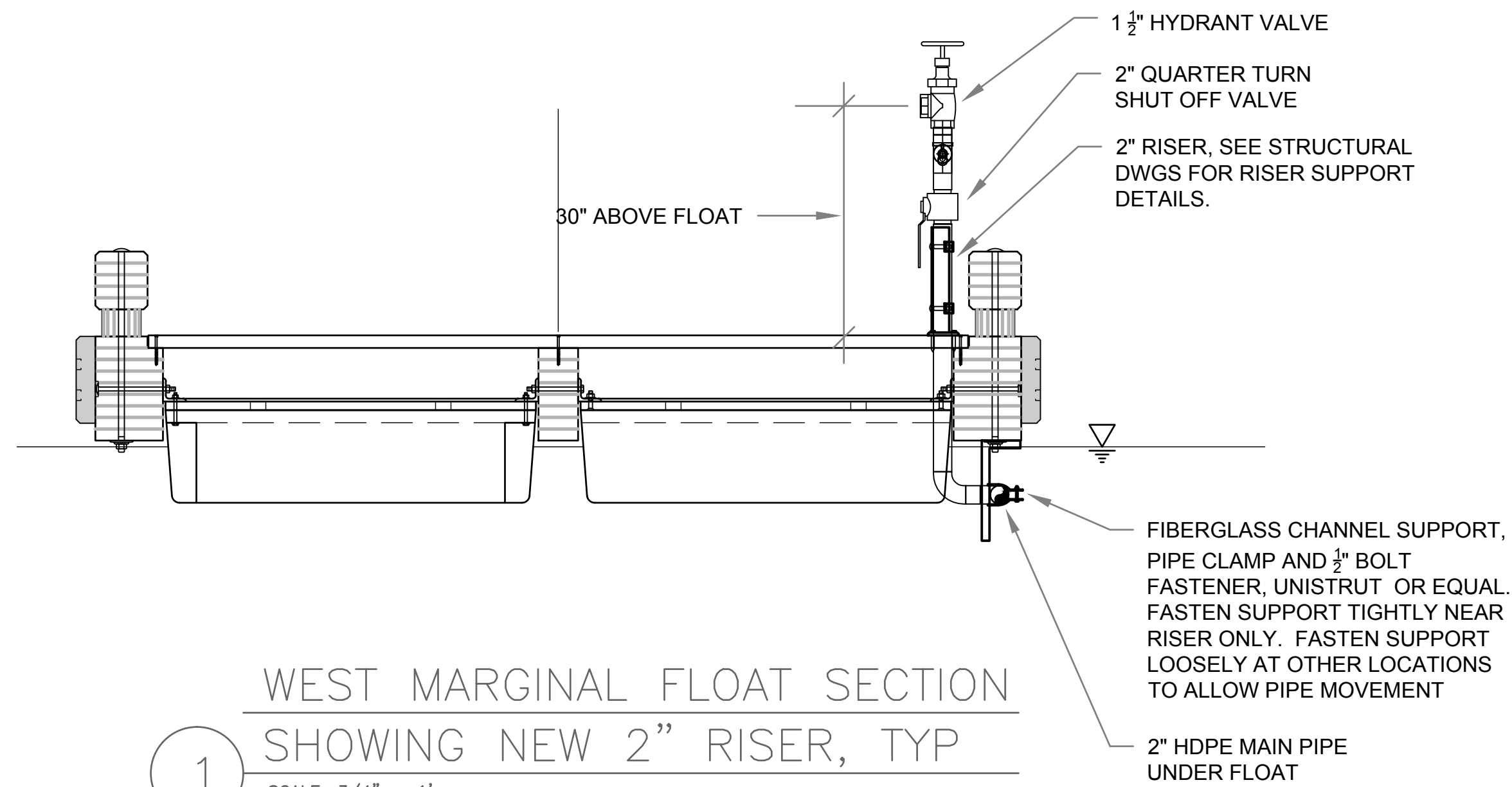
SYN	ACTION	DESCRIPTION	DATE	APPROVED

DESIGNED: A. DALSFORT	DATE: 14 FEB 2014	DWG SCALE: AS NOTED
DRAWN: A. DALSFORT	PLT SCALE: 1/2	
REVIEWED: C. VON GUNTEN	FILE: M-100 SITE PLAN AND RISER PLANS	
CHECKED: J. FABRIZIO	DRAWING #: 2-SEL-163-10-01	
CHIEF: J. FABRIZIO		
U.S. ARMY ENGINEER DISTRICT		
CORPS OF ENGINEERS		
ANCHORAGE, ALASKA		

SELDOVIA, ALASKA	
WEST MARGINAL FLOAT REPLACEMENT	
MECHANICAL	
PLANS	
SITE PLAN AND RISER PLANS	

REFERENCE NUMBER:
M-100
SHEET 25 OF 43

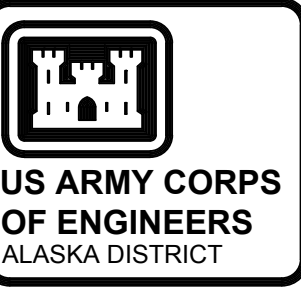
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PLUMBING MATERIALS DELIVERED TO CITY OF SELDOVIA BUT WERE NOT INSTALLED AS A PART OF THIS PROJECT.

NOTES:

1. SEE SITE PLAN M-100 FOR NEW 2" HDPE PIPING LAYOUT AND STRUCTURAL SHEETS FOR NEW PIPE RISER LOCATIONS.
2. THE CONTRACTOR SHALL PROVIDE NEW 2" HDPE PIPE MAIN AS INDICATED ON THE SITE PLAN M-100, AS DETAILED ON M-300 AND 301 AND AS SPECIFIED ON SPECIFICATIONS SECTION 22 00 00.
3. SEE NEW PIPE RISER SUPPORT DETAILS ON STRUCTURAL DRAWINGS.
4. THE CONTRACTOR SHALL SUPPORT THE NEW 2" HDPE MAIN PIPE UNDER THE WEST MARGINAL FLOAT WITH FIBERGLASS CHANNELS, CLAMPS AND FASTENERS. SUPPORT THE PIPE LOOSELY TO ALLOW LONGITUDINAL PIPE MOVEMENT. SUPPORTS SHALL BE SPACED AT 15 FEET OR AS RECOMMENDED BY THE HDPE PIPE MANUFACTURER AND WITHIN A FOOT OF RISERS.
5. THE CONTRACTOR SHALL PROVIDE A 3" x 5" BRONZE PLATE WITH INSCRIPTION STATING "NON-POTABLE WATER" ON EACH RISER.



US ARMY CORPS
OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO.	DATE
CONTRACTOR	STATE
CITY	APPROVED: _____
RECOMMENDED: _____	RESIDENT ENGINEER
PRIME CONTRACTOR	

SYMBOL	ACTION	DESCRIPTION	DATE	APPD

DESIGNED: A. DALSFOST	DATE: 14 FEB 2014
DRAWN: A. DALSFOST	DWG SCALE: AS NOTED
REVIEWED: C. VON RUMEN	PLOT SCALE: 1/2
CHECKED: J. FABRIZIO	FILE: M-300 PIPING DETAILS 1
CHIEF ENGINEER: J. FABRIZIO	DRAWING # 2-SEL-103-10-01
CHIEF OF DISTRICT: J. FABRIZIO	
U.S. ARMY ENGINEER DISTRICT	
CORPS OF ENGINEERS	
ANCHORAGE, ALASKA	

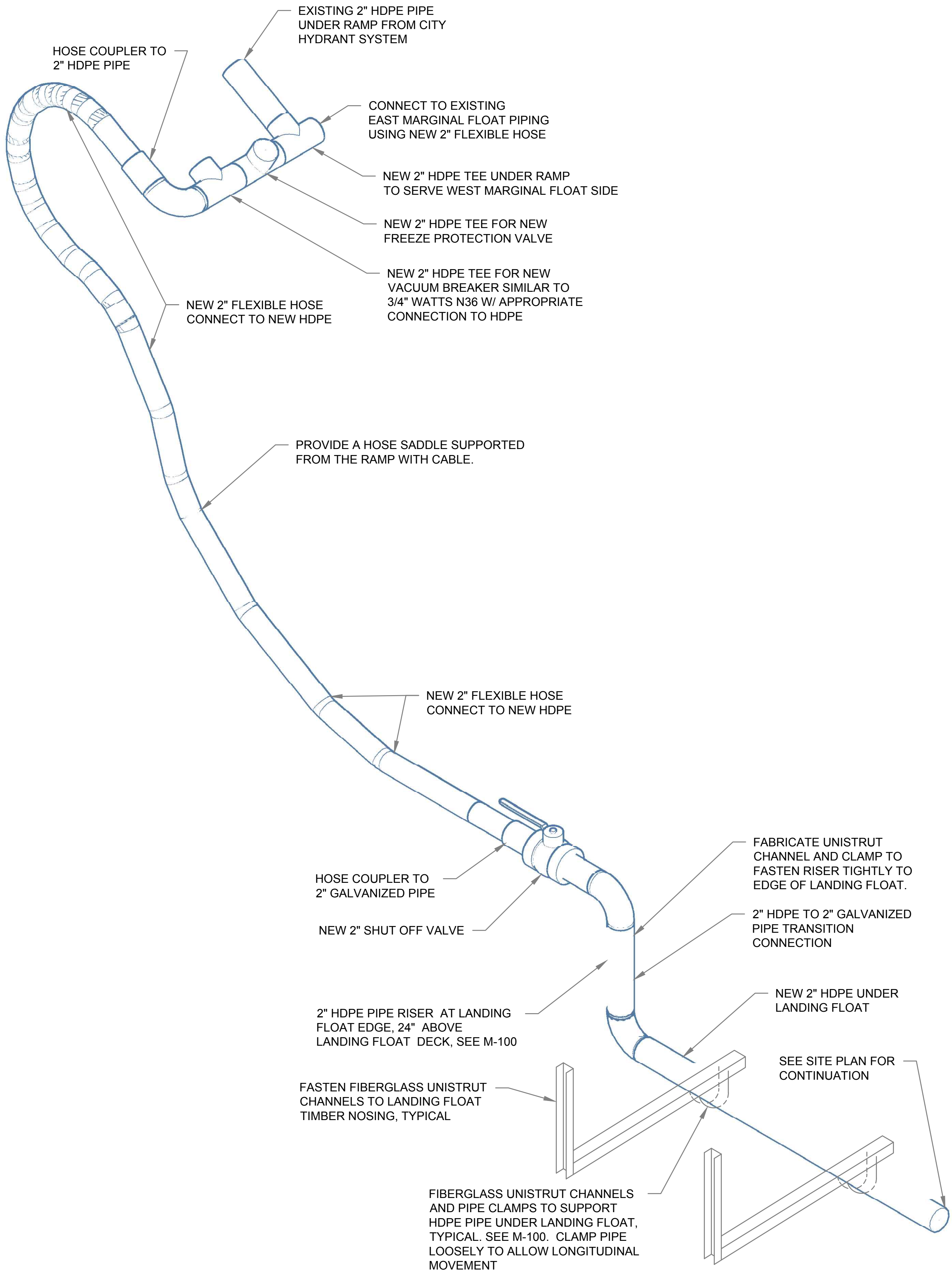
SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
MECHANICAL
DETAILS
PIPING DETAILS 1

REFERENCE
NUMBER:
M-300
SHEET 26 OF 43

IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED
SCALE PRINT. ADJUST SCALE ACCORDINGLY.

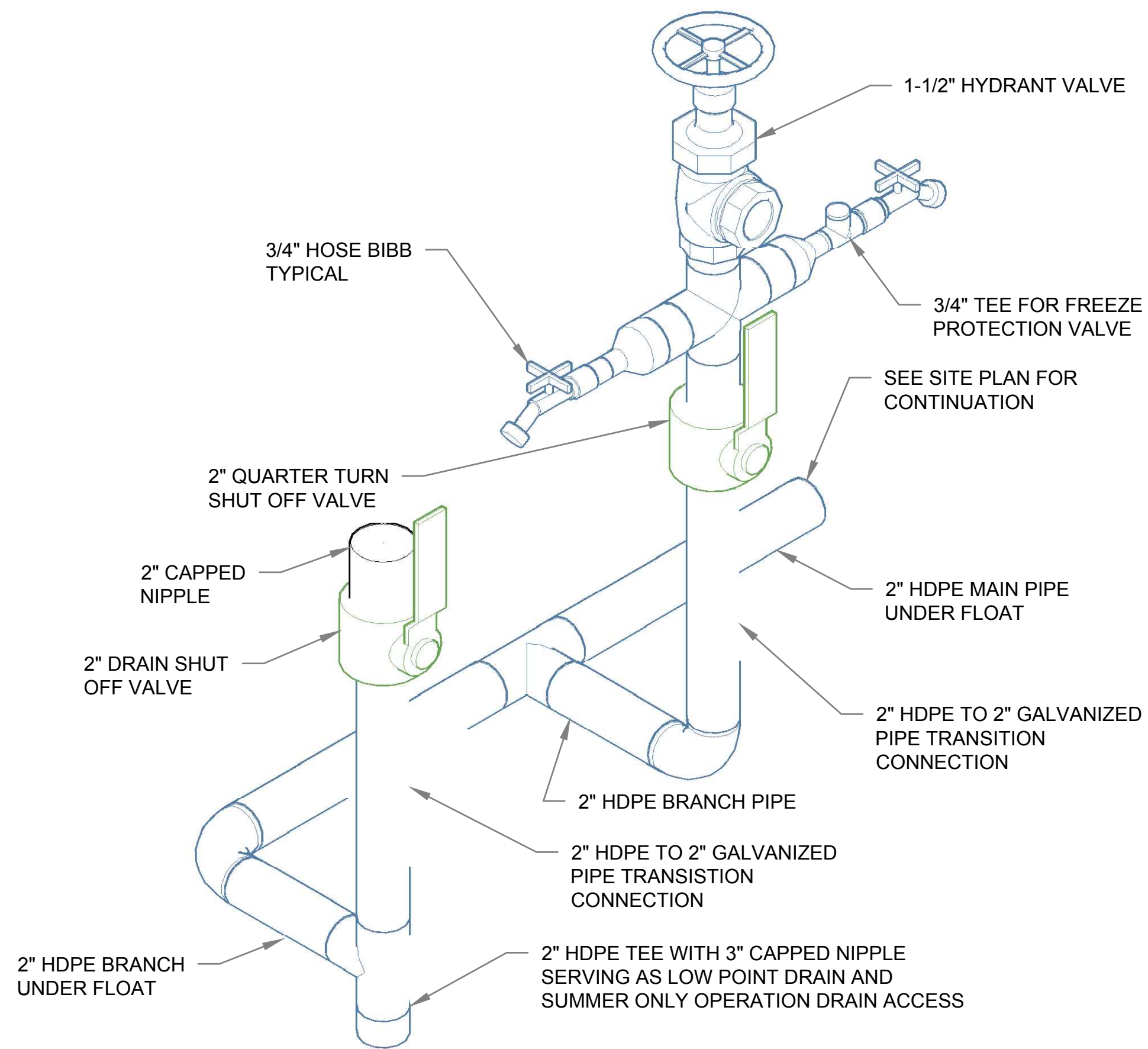
BID SET

Drawing p:8203 seldovia harbor500 CADD560 workingakv292 - standard, 20150209M-301 PIPING DETAILS II.dwg last saved on 3/11/2015 12:48 PM was plotted by Baizarni, Charles on 3/12/2015 11:25 AM



B NEW HDPE CONNECTION TO EXISTING HDPE PIPING DETAIL
NOT TO SCALE

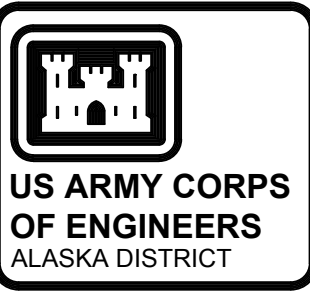
PLUMBING MATERIALS DELIVERED TO CITY OF SELDOVIA BUT WERE NOT INSTALLED AS A PART OF THIS PROJECT.



A FLOAT A RISER AND PIPE DRAIN RISER ISOMETRIC
NOT TO SCALE

NOTES:

1. SEE SITE PLAN M-100 FOR NEW 2" HDPE PIPING LAYOUT AND NEW PIPE RISER LOCATIONS.
2. THE CONTRACTOR SHALL PROVIDE NEW 2" HDPE PIPE MAIN AS INDICATED ON THE SITE PLAN M-100, AS DETAILED ON M-300 AND 301 AND AS SPECIFIED ON SPECIFICATIONS SECTION 22 00 00.
3. THE CONTRACTOR SHALL PROVIDE A LOW POINT DRAIN AS INDICATED ON THIS SHEET, SEE CIVIL DRAWINGS FOR EXACT LOW POINT DRAIN RISER SEE LOCATION. SEE SHEET M-001 FOR SUMMER ONLY OPERATIONS AND DRAINING OPERATIONS.
4. THE CONTRACTOR SHALL PROVIDE A FLEXIBLE HOSE TO ACCOMMODATE THE VERTICAL AND HORIZONTAL SPAN OF THE EXISTING HDPE AND THE NEW RISER AS INDICATED ON THIS SHEET. THE FLEXIBLE HOSE SHALL ALSO ACCOMMODATE THE RANGE OF MOVEMENT FROM TIDAL ACTION. TIDAL ACTION SHALL BE 32 FT FOR PURPOSES OF DETERMINING FLEXIBLE HOSE LENGTH.



CONTRACT NO.	CONTRACTOR	CITY	RECOMMENDED:	APPROVED:	DATE
			PRIME CONTRACTOR	RESIDENT ENGINEER	

SYMBOL	ACTION	DESCRIPTION	DATE	APPD

DESIGNED: A. DALSFOST	DATE: 14 FEB 2014	DWG SCALE: AS NOTED
DRAWN: A. DALSFOST		PLOT SCALE: 1/2
REVIEWED: C. VON GUNTEN		FILE: M-301 PIPING DETAILS II
CHECKED: EN-103-10-01		DRAWING # 2-SEL-103-10-01
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ANCHORAGE, ALASKA		

SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
MECHANICAL
DETAILS
PIPING DETAILS II

REFERENCE NUMBER:
M-301
SHEET 27 OF 43

IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED SCALE PRINT. ADJUST SCALE ACCORDINGLY.

BID SET

This technical drawing illustrates the layout of a harbor master facility, including various floats, moorings, and electrical infrastructure. The plan is oriented with North at the top, indicated by a north arrow and a scale bar (1" = 40').

GENERAL NOTES:

- THIS WORK INVOLVES PARTIAL DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT AND CIRCUITS WHICH ARE SHOWN ON THE DRAWINGS. THERE ARE EXISTING EQUIPMENT AND CIRCUITS WHICH PROVIDE POWER TO EQUIPMENT ON EACH ONE OF THE EXISTING FLOATS A, B, C, D, E, AND MAIN FLOATS. THIS SYSTEMS WILL REMAIN IN PLACE AND WILL BE REUSED AT THE COMPLETION OF THE NEW WORK.
- CONTRACTOR SHALL IDENTIFY, VERIFY, AND PROTECT THE EQUIPMENT AND CIRCUITS WHICH WILL REMAIN AND PREVENT DAMAGE DURING NEW CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS DURING CONSTRUCTION TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND CIRCUITS.
- ALL EXISTING POWER AND LIGHTING PANELS ARE FED VIA POWER CABLES WHICH RUN UNDER THE EXISTING DECK. CABLES WHICH ARE NOT TO BE DEMOLISHED SHALL BE IDENTIFIED AND PROTECTED DURING CONSTRUCTION FOR FUTURE REUSE.
- NEW POWER AND NON DEMOLISHED CABLES SHALL BE RUN VIA AVAILABLE CAVITY UNDER THE NEW DECK. SEE DETAIL A, S-301 FOR CAVITY DETAIL.

LEGEND:

- INTERNAL PILE HOOP W/ STEEL PILE (4x ASZ)
- INTERNAL PILE HOOP W/O PILE (4x ASZ)
- LIFE RING CABINET (4x ASZ)
- FLOAT MOUNTED LIGHT POLE (2x ASZ)
- LOW VOLTAGE POWER PEDESTAL (8x ASZ)
- HIGH VOLTAGE POWER PEDESTAL (8x ASZ)
- TRANSFORMER (2x ASZ)
- ELECTRICAL PANEL (8x ASZ)
- WATER SYSTEM RISER (16x ASZ)
- TIMBER MOORING PILE & SLEEVE (4x ASZ)
- ELECTRICAL JUNCTION BOX (8x ASZ)
- EXTERNAL PILE HOOP W/ STEEL PILE (4x ASZ)
- EXTERNAL PILE HOOP W/O STEEL PILE (4x ASZ)
- CMP CORRUGATED METAL PIPE CULVERT
- M-MP14 (E) FLOAT-MOORING PILE/RING NUMBER

SEE C-401 FOR LARGE-SCALE DECK PLANS

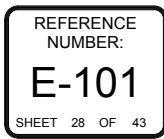
Scale: 1" = 40'














IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED SCALE PRINT. ADJUST SCALE ACCORDINGLY.

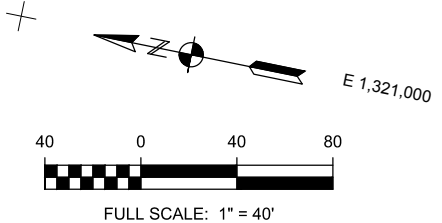
BID SET

Key Features and Labels:

- Floats:** WEST MARGINAL FLOAT 10' x APPROX 312'-6", WEST MARGINAL FLOAT 10' x APPROX 400', EAST MARGINAL FLOAT 10' x APPROX 187'-6", 10' x 225' MAIN FLOAT, 10' x 287.5' MAIN FLOAT, 10' x 311' MAIN FLOAT, 10' x 331.5' MAIN FLOAT, 10' x 337.5' MAIN FLOAT, 24' x 60' SEAPLANE FLOAT.
- Structures:** HARBOR MASTER, HARBOR VIEW DRIVE, MAIN ST., ROCK BREAKWATER.
- Equipment:** EXISTING POWER PANEL P, EXISTING POWER PANEL TF, INDEPENDENT TRANSFORMER FLOAT, EXISTING LIGHTING PANEL D, COVERED ALUMINUM GANGWAY, 12' x 174' FIXED HEIGHT APPROACH.
- Grids:** BOAT GRID.
- Other:** CMP (Corrugated Metal Pipe Culvert), M-MP14 (Float-Mooring Pile/Ring Number).



	<u>LEGEND</u>	
	INTERNAL PILE HOOP W/ STEEL PILE (4x ASZ)	
	INTERNAL PILE HOOP W/O PILE (4x ASZ)	
	LIFE RING CABINET (4x ASZ)	
	FLOAT MOUNTED LIGHT POLE (2x ASZ)	
	LOW VOLTAGE POWER PEDESTAL (8x ASZ)	
	HIGH VOLTAGE POWER PEDESTAL (8x ASZ)	
	TRANSFORMER (2x ASZ)	
	ELECTRICAL PANEL (8x ASZ)	
	WATER SYSTEM RISER (16x ASZ)	
	TIMBER MOORING PILE & SLEEVE (4x ASZ)	
	ELECTRICAL JUNCTION BOX (8x ASZ)	
	EXTERNAL PILE HOOP W/ STEEL PILE (4x ASZ)	
	EXTERNAL PILE HOOP W/O STEEL PILE (4x ASZ)	
CMP	CORRUGATED METAL PIPE CULVERT	
M-MP14	(E) FLOAT-MOORING PILE/RING NUMBER	

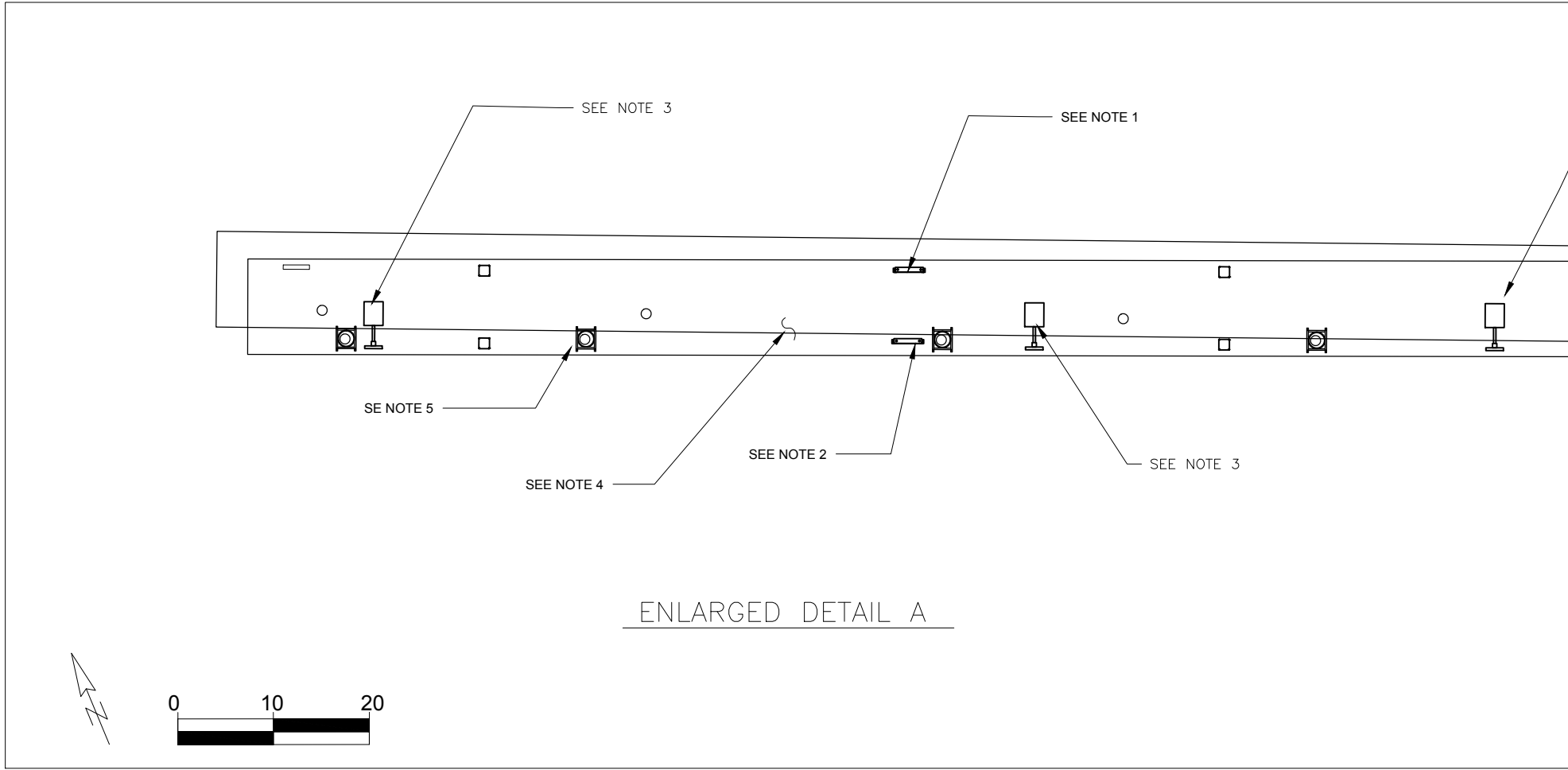


BID SET

Drawing p:\8203 seldovia harbor\500 CADD\560 working\akv292 - standard, 20150209\E-102 ENLARGED DETAIL A.dwg last saved on 3/11/2015 10:14 AM was plotted by Balzarini, Charles on 3/12/2015 11:26 AM

ELECTRICAL NOTES

1. EXISTING 208 VOLT POWER PEDESTAL TO BE DEMOLISHED. CONTAINS A GE KWHR METER, A CIRCUIT BREAKER, A 4 POLE CONNECTION RECEPTACLE, A 6"x6" WIREWAY, ONE 4 CONDUCTOR #2/0 TYPE G CABLES AND CONNECTORS. ALL MOUNTED ON A 24"x30"x1/4" METAL BACK BOARD AND 1-1/2"x 1-1/2" L CHANNEL METAL SUPPORTS. SUPPORTS ARE ATTACHED TO WOOD DECKING WITH 3" LAG BOLTS. DEMOLISH ALL POWER CABLES FROM THIS LOCATION TO EXISTING PANEL TF.
2. EXISTING 208 VOLT POWER PEDESTAL TO BE DEMOLISHED. CONTAINS A GE KWHR METER, A CIRCUIT BREAKER, A 4 POLE CONNECTION RECEPTACLE, A 6"x6" WIREWAY, TWO 4 CONDUCTOR #2/0 TYPE G CABLES AND CONNECTORS. ALL MOUNTED ON A 24"x30"x1/4" METAL BACK BOARD AND 1-1/2"x 1-1/2" L CHANNEL METAL SUPPORTS. SUPPORTS ARE ATTACHED TO WOOD DECKING WITH 3" LAG BOLTS. DEMOLISH ALL POWER CABLES FROM THIS LOCATION TO EXISTING PANEL TF.
3. EXISTING POLE MOUNTED LIGHT FIXTURE CONSISTING OF A GE DECASHIELD 400 FIXTURE MOUNTED ON A 16 FOOT, 6"x6" SQUARE WOOD POLE, ANTI-PERCHING MATERIAL ON TOP OF THE FIXTURE AND SUPPORT ARM, A 6"x6"x6" FIBERGLASS JUNCTION BOX ABOVE DECK WITH TWO 2" PVC CONDUIT STUB-UPS THRU THE WOOD DECK AND A 1"PVC CONDUIT FROM THE JBOX TO THE FIXTURE. WOOD POLE IS ATTACHED TO DECK WITH A THRU HOLE MOUNTING ABOVE THE DECK AND BELOW THE DECK. DISCONNECT, REMOVE, AND PROTECT FROM ITS PRESENT LOCATION THE WOOD POLE, LIGHT FIXTURE, SUPPORT ARM, ANTI-PERCHING MATERIALS, JUNCTION BOX, CONDUIT CLAMPS AND MOUNTING METAL CHANNEL AND ITS HARDWARE FOR FUTURE USE. DEMOLISH THE EXISTING CONDUITS AND WIRING THRU THE DECK AND TO THE PANEL SOURCE, AND FROM J BOX TO THE FIXTURE. THE SALVAGED COMPONENTS SHALL BE RE-INSTALLED IN A SIMILAR ARRANGEMENT ON NEW DECK. THIS INSTALLATION IS TYPICAL OF ALL EXISTING DECK LIGHT POLES.
4. EXISTING WOOD DECKING, HARDWARE AND MATERIALS TO BE REMOVED AND REPLACED. TYPICAL OF ALL DECKING FLOORING ON THE FLOATING DOCK. SEE OTHER DRAWINGS FOR SPECIFIC INFORMATION.
5. EXISTING METAL PILES.



GENERAL NOTES

1. THIS WORK INVOLVES PARTIAL DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT AND CIRCUITS WHICH ARE SHOWN ON THE DRAWINGS. THERE IS EXISTING EQUIPMENT AND CIRCUITS WHICH PROVIDE POWER TO EQUIPMENT ON EACH ONE OF THE EXISTING A, B, C, D, AND MAIN FLOATS. THIS SYSTEMS WILL REMAIN IN PLACE AND WILL BE REUSED AT THE COMPLETION OF THE NEW WORK.
2. CONTRACTOR SHALL IDENTIFY, VERIFY, AND PROTECT THE EQUIPMENT AND CIRCUITS WHICH WILL REMAIN AND PREVENT DAMAGE DURING NEW CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS DURING CONSTRUCTION TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND CIRCUITS.
3. ALL EXISTING POWER AND LIGHTING PANELS ARE FED VIA POWER CABLES WHICH RUN UNDER THE EXISTING DECK. CABLES WHICH ARE NOT TO BE DEMOLISHED SHALL BE IDENTIFIED AND PROTECTED DURING CONSTRUCTION FOR FUTURE REUSE.
4. NEW POWER CABLES AND NON DEMOLISHED CABLES SHALL BE RUN VIA AVAILABLE CAVITY UNDER THE NEW DECK. THE CAVITY IS SHOWN IN DETAIL IN STRUCTURAL DRAWINGS.

**US ARMY CORPS
OF ENGINEERS**
ALASKA DISTRICT

CONTRACT NO.	CONTRACTOR	CITY	STATE	DATE
RECOMMENDED	APPROVED	DESIGNED	DESIGNED	DESIGNED
DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED

DATE: 14 FEB 2014	DWG SCALE: AS NOTED	PLAT SCALE: 1/2
DESIGNED: JLO	DRAWN: ROBERT BOLTON	FILE: E-102 ENLARGED DETAIL A
REVIEWED: ROBERT BOLTON	CHECK: J. FABRIZIO	DRAWING #: 2-SEL-163-10-01
CHIEF: J. FABRIZIO	CHIEF: J. FABRIZIO	CHIEF: J. FABRIZIO

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
ELECTRICAL
PLANS
ENLARGED DETAIL A

REFERENCE
NUMBER:
E-102
SHEET 29 OF 43

BID SET

P2 No. 326049

AKV292

IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED SCALE PRINT. ADJUST SCALE ACCORDINGLY.

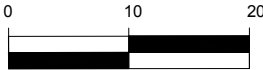
6

- 5

- NOTE 4

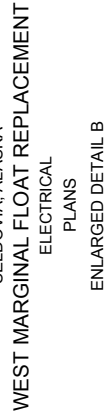
GENERAL NOTE

- SEE NOTE 3 —



ENLARGED DETAIL 1

BID SET



6

- 5

REFERENCE
NUMBER:
E-104

SHEET 31 OF 43

- P2 No. 326049**



BID SET

ELECTRICAL NOTES

1. EXISTING POLE MOUNTED LIGHT FIXTURE CONSISTING OF A GE DECASHIELD 400 FIXTURE MOUNTED ON A 16 FOOT, 6"x6" SQUARE WOOD POLE, ANTI-PERCHING MATERIAL ON TOP OF THE FIXTURE AND SUPPORT ARM, A 6"x6"x6" FIBERGLASS JUNCTION BOX ABOVE DECK WITH TWO 2" PVC CONDUIT STUB-UPS THRU THE WOOD DECK AND A 1" PVC CONDUIT FROM THE JBOX TO THE FIXTURE. WOOD POLE IS ATTACHED TO DECK WITH A THRU HOLE MOUNTING ABOVE THE DECK AND BELOW THE DECK. DISCONNECT, REMOVE, AND PROTECT FROM ITS PRESENT LOCATION THE WOOD POLE, LIGHT FIXTURE, SUPPORT ARM, ANTI-PERCHING MATERIALS, JUNCTION BOX, CONDUIT CLAMPS AND MOUNTING METAL CHANNEL AND ITS HARDWARE FOR FUTURE USE. DEMOLISH THE EXISTING CONDUITS AND WIRING THRU THE DECK, TO THE PANEL SOURCE, AND TO THE FIXTURE. THE SALVAGED COMPONENTS SHALL BE RE-INSTALLED IN A SIMILAR ARRANGEMENT ON NEW DECK. THIS INSTALLATION IS TYPICAL OF ALL EXISTING DECK LIGHT POLES.
2. EXISTING WOOD DECKING, HARDWARE AND MATERIALS TO BE REMOVED AND REPLACED. TYPICAL OF ALL DECKING FLOORING ON THE FLOATING DOCK. SEE OTHER DRAWINGS FOR SPECIFIC INFORMATION.
3. EXISTING METAL PILES.
4. EXISTING 480VAC SPLICE BOX WITH 4-2 INCH CONDUITS THRU THE EXISTING DECKING, TO REMAIN. MOUNTED ON 1-5/8"x1-5/8" C CHANNEL SUPPORTS. PROTECT BOX AND CONDUITS DURING CONSTRUCTION AND RE-INSTALL ALL COMPONENTS ON NEW DECKING.

2. EXISTING WOOD DECKING, HARDWARE AND MATERIALS TO BE REMOVED AND REPLACED. TYPICAL OF ALL DECKING FLOORING ON THE FLOATING DOCK. SEE OTHER DRAWINGS FOR SPECIFIC INFORMATION.

- ### 3. EXISTING METAL PILES.

4. EXISTING 480VAC SPLICE BOX WITH 4-2 INCH CONDUITS THRU THE EXISTING DECKING, TO REMAIN. MOUNTED ON 1-5/8"X1-5/8" C CHANNEL SUPPORTS. PROTECT BOX AND CONDUITS DURING CONSTRUCTION AND RE-INSTALL ALL COMPONENTS ON NEW DECKING.

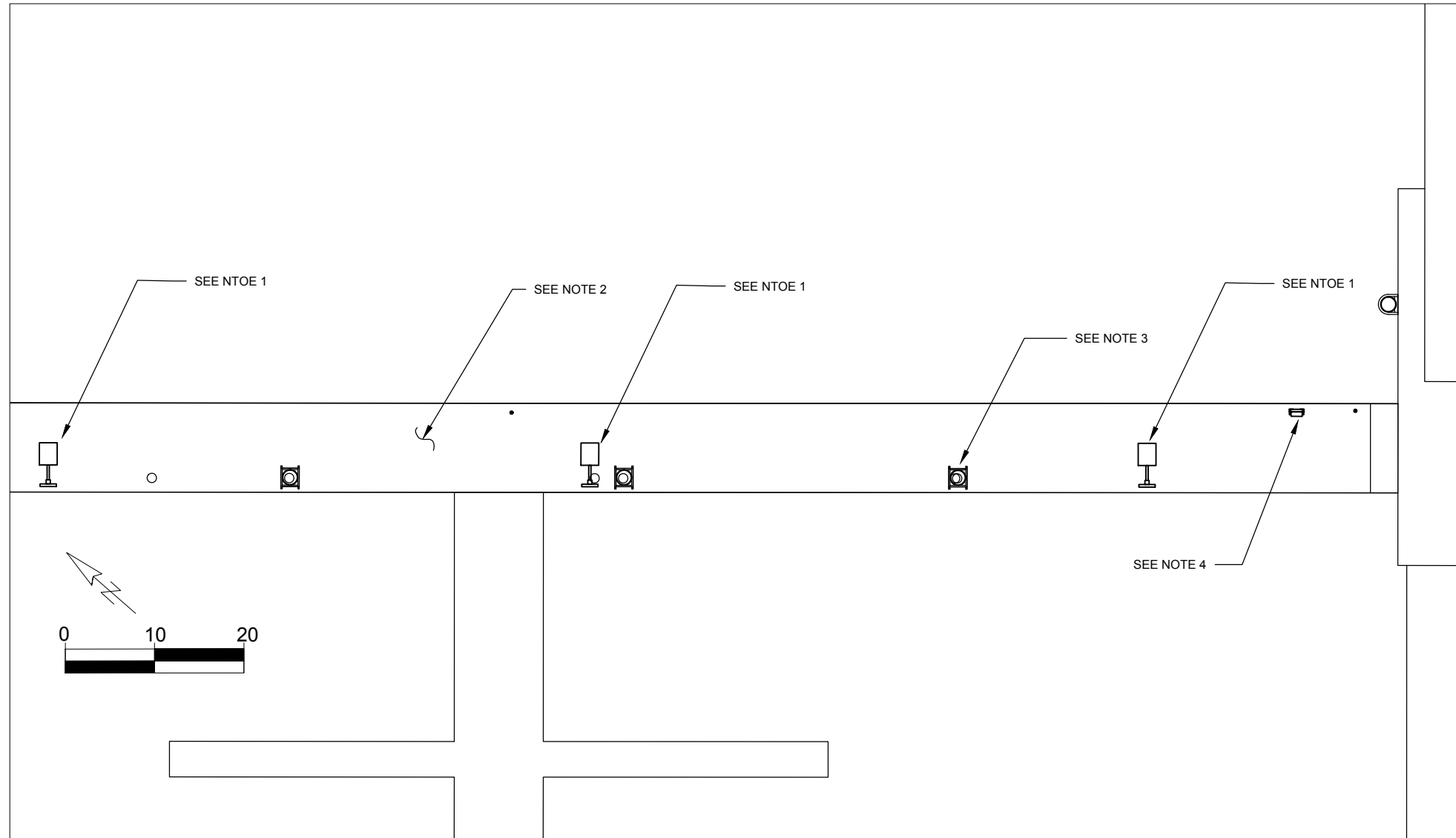
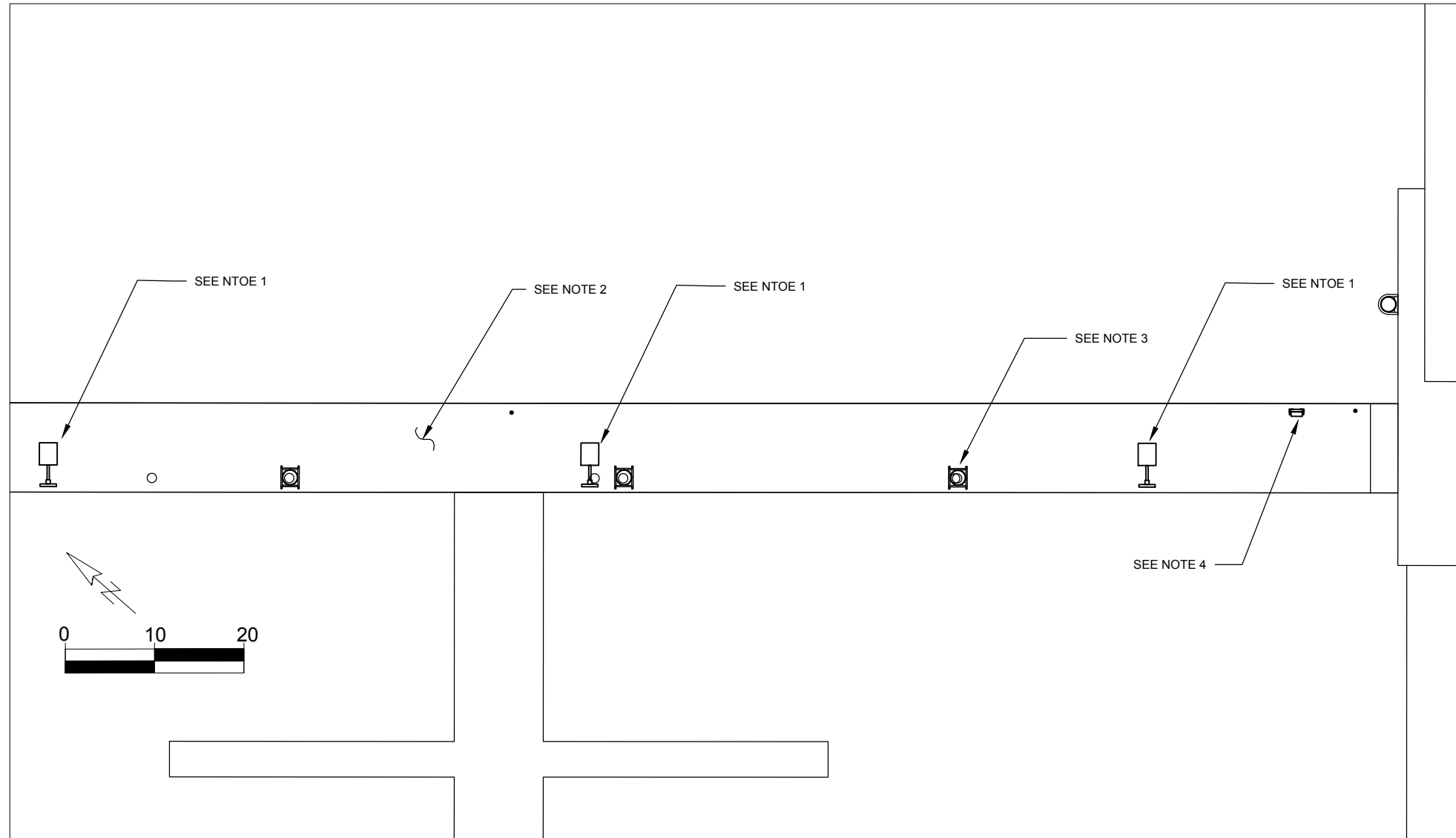
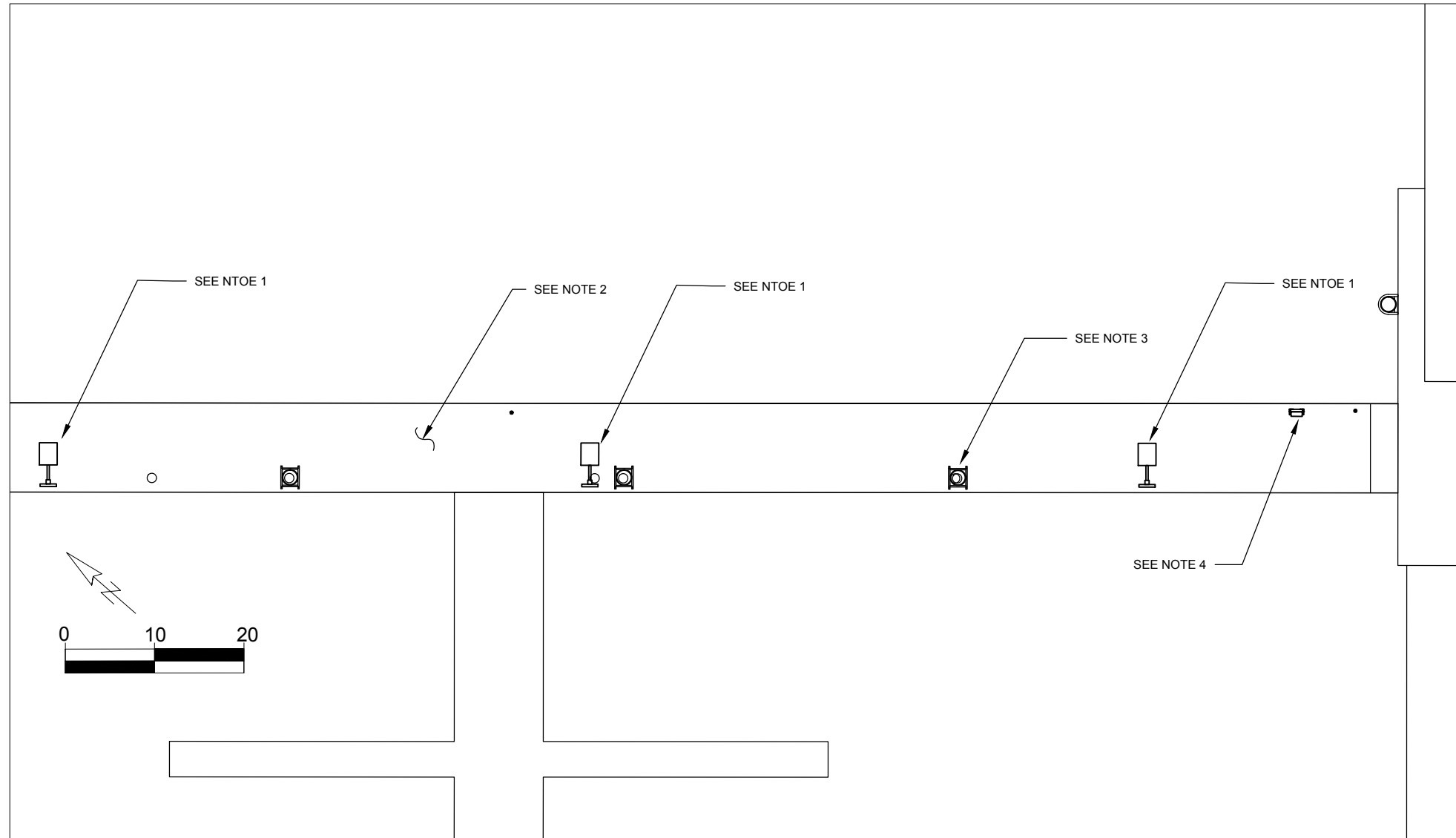
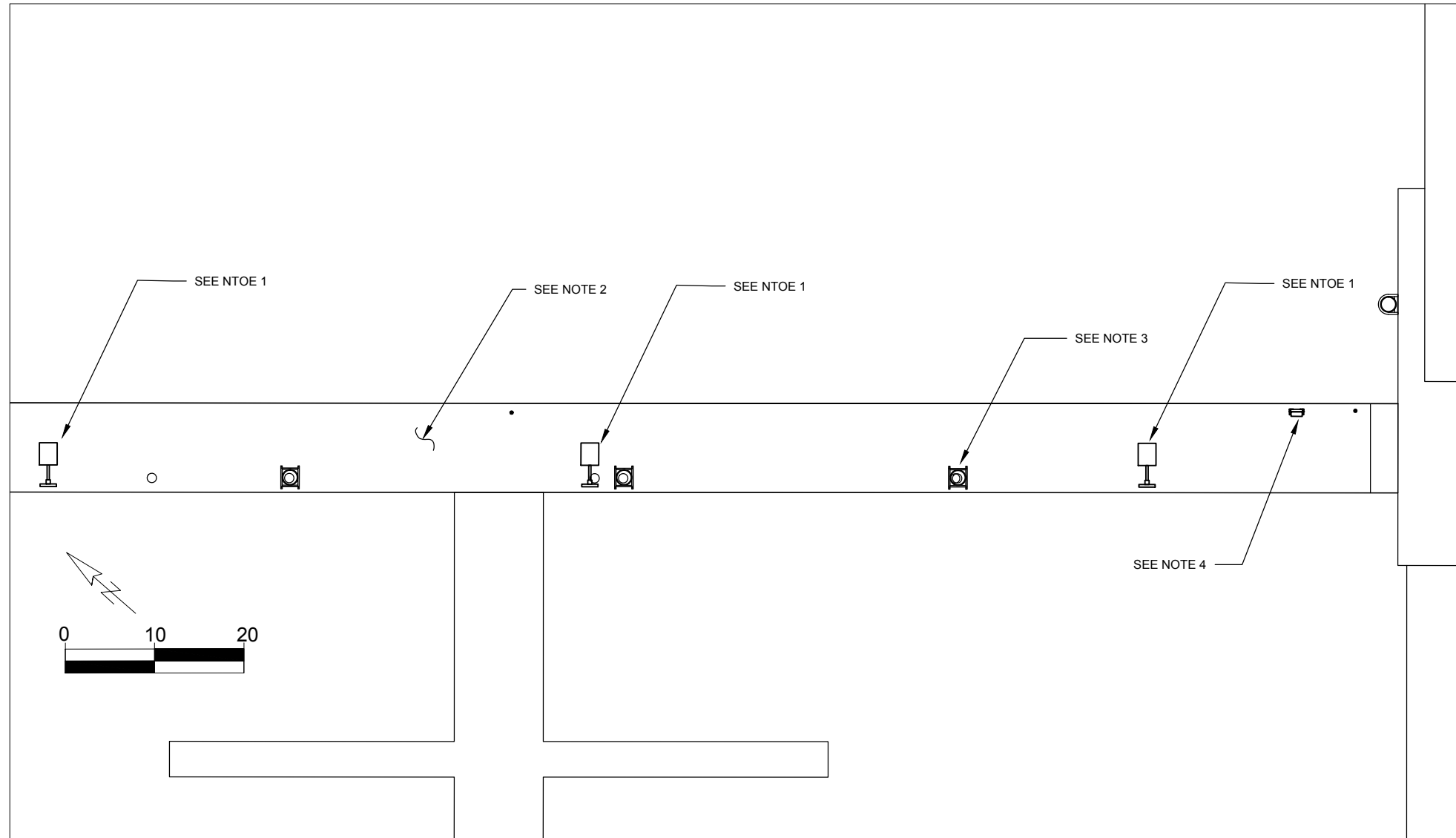
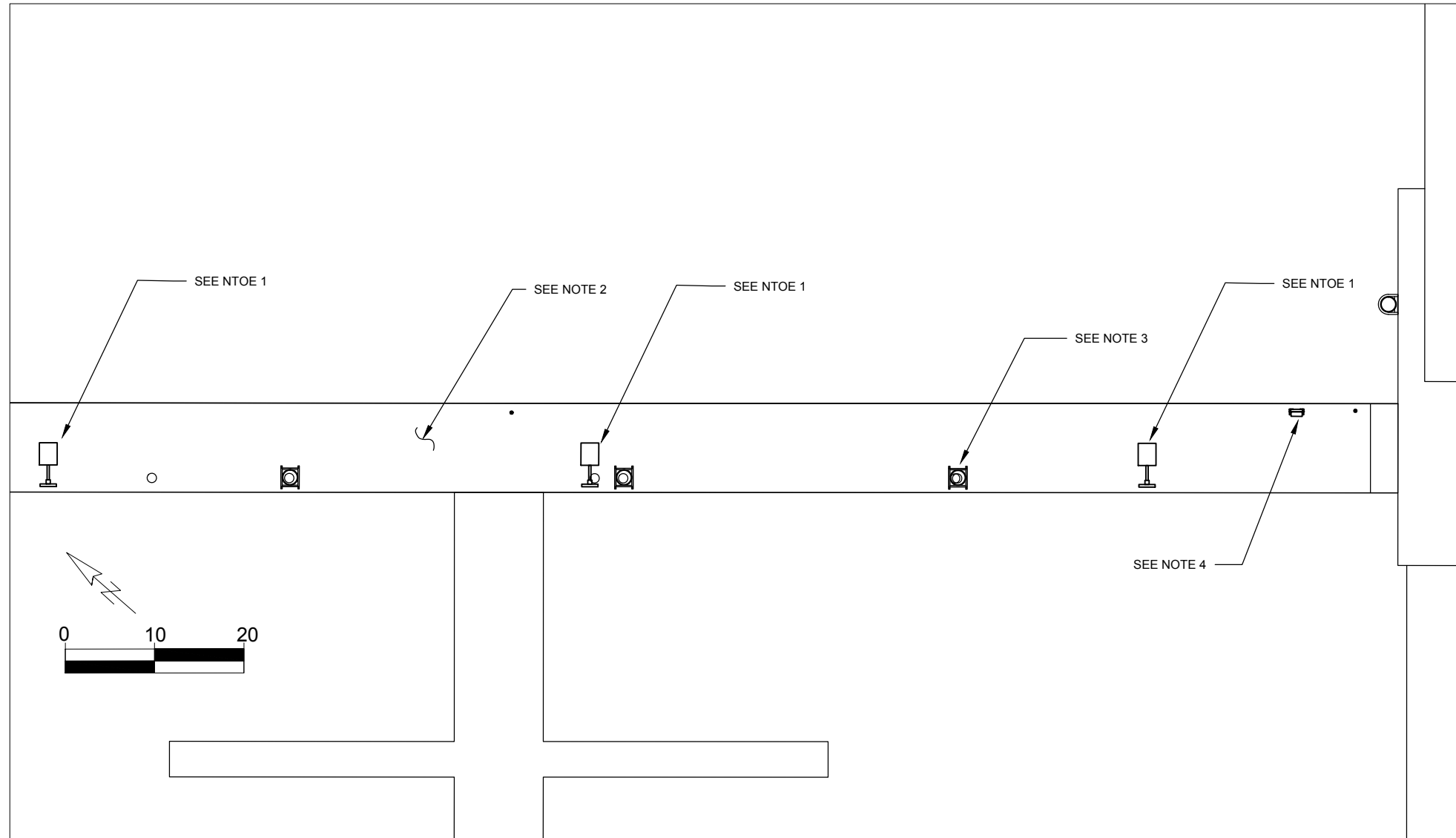
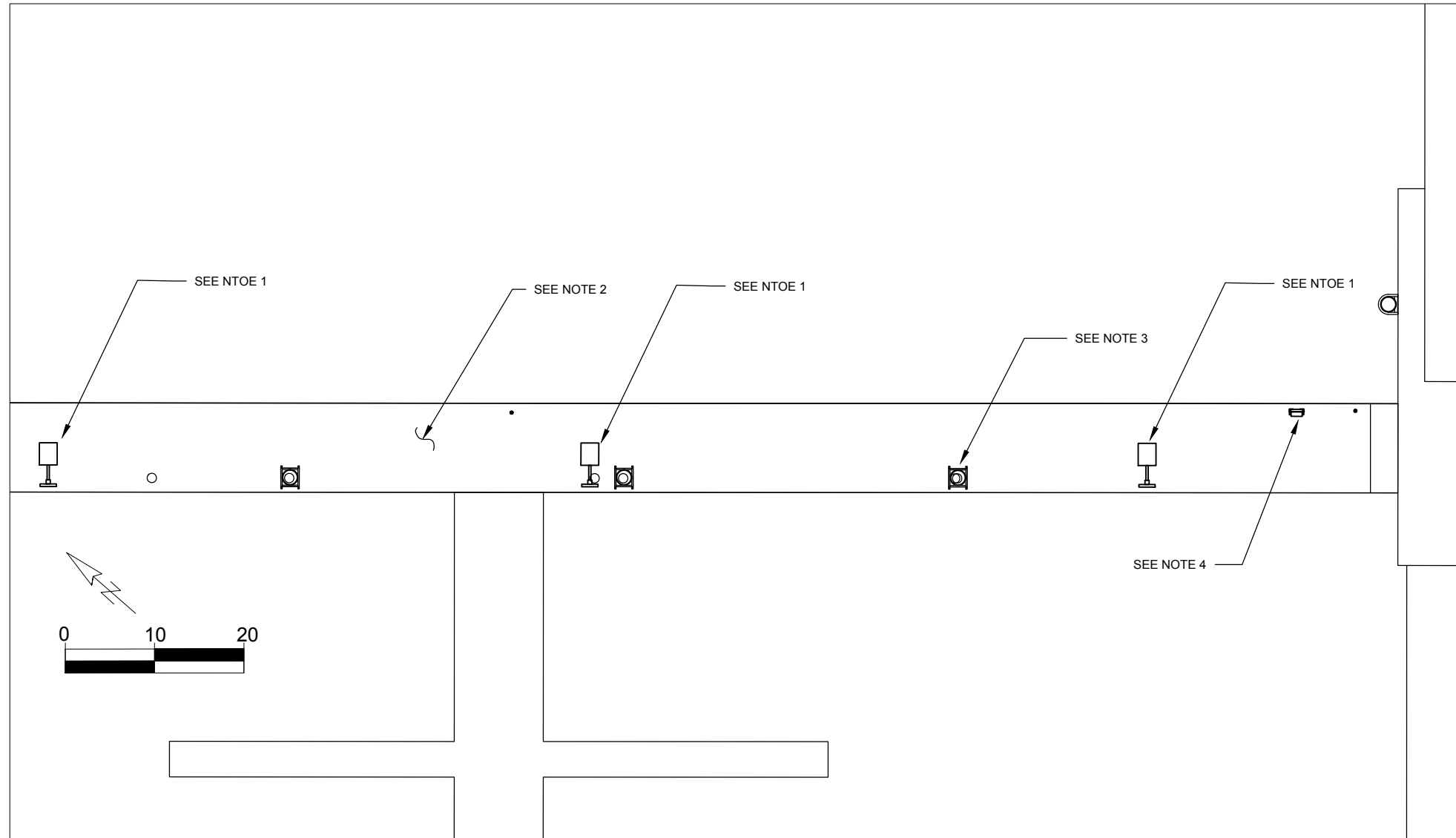
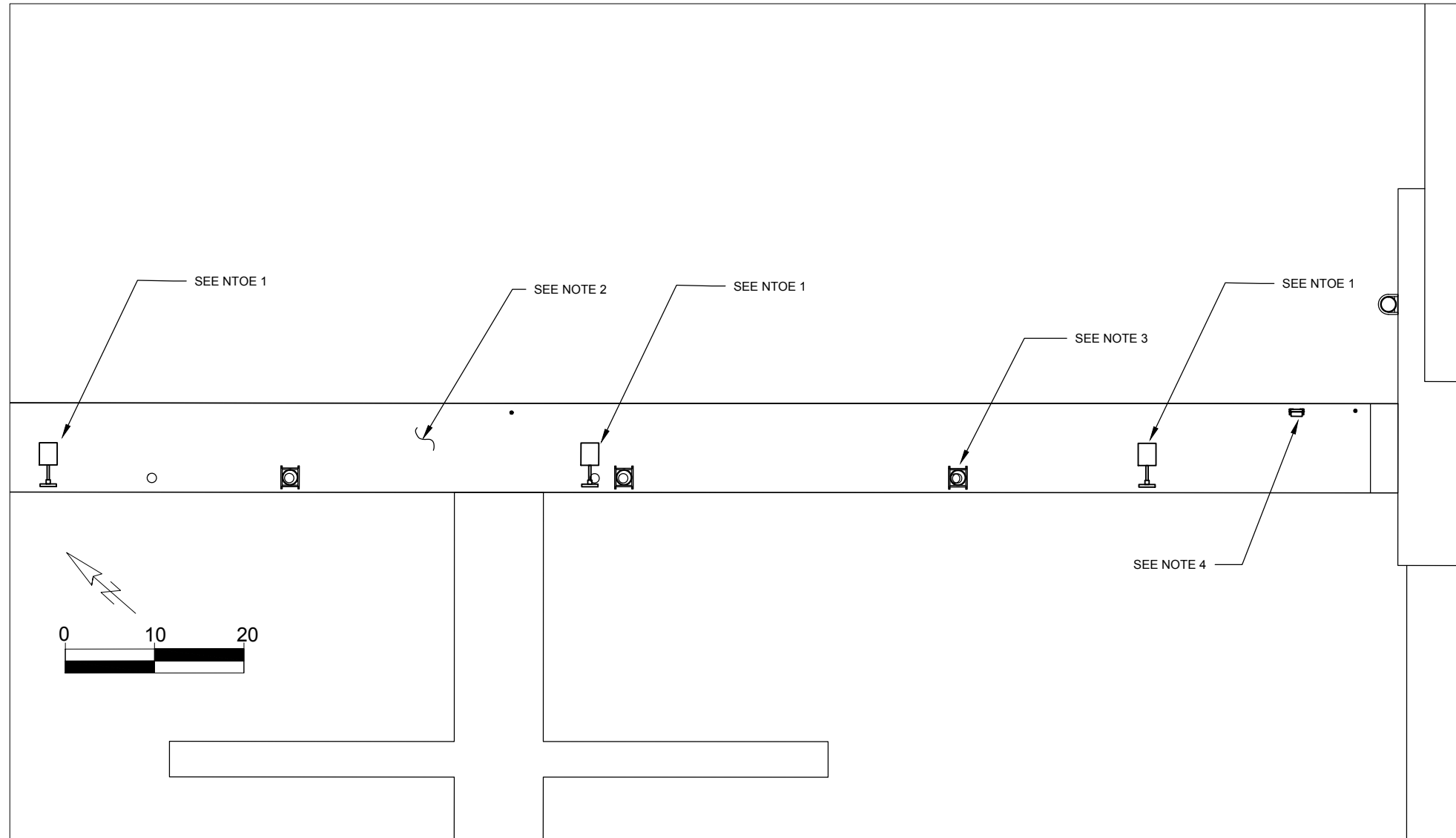
GENERAL NOTES

1. THIS WORK INVOLVES PARTIAL DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT AND CIRCUITS WHICH ARE SHOWN ON THE DRAWINGS. THERE IS EXISTING EQUIPMENT AND CIRCUITS WHICH PROVIDE POWER TO EQUIPMENT ON EACH ONE OF THE EXISTING A, B, C, D, E, AND MAIN FLOATS. THIS SYSTEMS WILL REMAIN IN PLACE AND WILL BE REUSED AT THE COMPLETION OF THE NEW WORK.
2. CONTRACTOR SHALL IDENTIFY, VERIFY, AND PROTECT THE EQUIPMENT AND CIRCUITS WHICH WILL REMAIN AND PREVENT DAMAGE DURING NEW CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS DURING CONSTRUCTION TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND CIRCUITS.
3. ALL EXISTING POWER AND LIGHTING PANELS ARE FED VIA POWER CABLES WHICH RUN UNDER THE EXISTING DECK. CABLES WHICH ARE NOT TO BE DEMOLISHED SHALL BE IDENTIFIED AND PROTECTED DURING CONSTRUCTION FOR FUTURE REUSE.
4. NEW POWER CABLES AND NON DEMOLISHED CABLES SHALL BE RUN VIA AVAILABLE CAVITY UNDER THE NEW DECK. THE CAVITY IS SHOWN IN DETAIL IN STRUCTURAL DRAWINGS.

2. CONTRACTOR SHALL IDENTIFY, VERIFY, AND PROTECT THE EQUIPMENT AND CIRCUITS WHICH WILL REMAIN AND PREVENT DAMAGE DURING NEW CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS DURING CONSTRUCTION TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND CIRCUITS.

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4. NEW POWER CABLES AND NON DEMOLISHED CABLES SHALL BE RUN VIA AVAILABLE CAVITY UNDER THE NEW DECK. THE CAVITY IS SHOWN IN DETAIL IN STRUCTURAL DRAWINGS.




ENLARGED DETAIL D



CONTRACT NO. _____		CITY _____		STATE _____	DATE: _____	
CONTRACTOR _____		RECOMMENDED: _____		APPROVED: _____	RESIDENT ENGINEER _____	_____
PRIME CONTRACTOR _____		_____		_____	_____	_____

[illegible]

	U.S. ARMY ENGINEER DISTRICT	DESIGNED: JLO	DATE: 14 FEB 2014
	CORPS OF ENGINEERS ANCHORAGE, ALASKA	DRAWN: JLO	DWG SCALE: AS NOTED
	REVIEWED: ROBERT BOLTON	FILE SCALE: 1:2	
	BY: J. BOLTON	PROJECT: E-205 ENHANCED DETAIL D	
	CHIEF, CIVIL ENGINE BRANCH	DRAWING # 2-SEL-163-10-01	

DATE: 14 FEB 2014
DWG SCALE: AS NOTED
PLOT SCALE: 1:2
FILE: E-105 ENLARGED DETAIL D
DRAWING #: 2-SEL-163-10-01

DESIGNED: JLO
DRAWN: JLO
REVIEWED: ROBERT BOLTON
CHIEF, EN-DB-ME SECTION
SUBMITTED: J. FABBRIZIO
CHIEF, CEPOA-EN-DB BRANCH

SELDovia, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
ELECTRICAL
PLANS
ENLARGED DETAIL D

REFERENCE
NUMBER:
E-105
SHEET 32 OF 43

IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED
SCALE PRINT. ADJUST SCALE ACCORDINGLY.

BID SET

6

5

4

24' SQ TAPERED SWING
DOWN POLE

3

A schematic diagram of a piston and crank mechanism. On the left is a vertical piston rod with a T-shaped cross-section. This rod is connected to a horizontal crank arm, which is in turn connected to a large rectangular crankshaft housing on the right.

XX

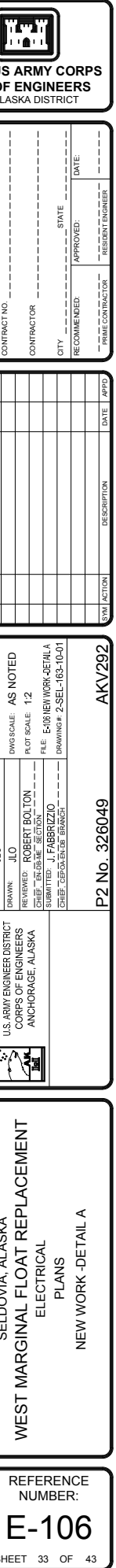
 \ominus

1. THIS WORK INVOLVES PARTIAL DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT AND CIRCUITS WHICH ARE SHOWN ON THE DRAWINGS. THERE IS EXISTING EQUIPMENT AND CIRCUITS WHICH PROVIDE POWER TO EQUIPMENT ON EACH ONE OF THE EXISTING A, B, C, D, E, AND MAIN FLOATS. THIS SYSTEMS WILL REMAIN IN PLACE AND WILL BE REUSED AT THE COMPLETION OF THE NEW WORK.

3. ALL EXISTING POWER AND LIGHTING PANELS ARE FED VIA POWER CABLES WHICH RUN UNDER THE EXISTING DECK. CABLES WHICH ARE NOT TO BE DEMOLISHED SHALL BE IDENTIFIED AND PROTECTED DURING CONSTRUCTION FOR FUTURE REUSE.

IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED
SCALE PRINT. ADJUST SCALE ACCORDINGLY.

BID SET



Drawing p:\8203 seldovia harbor\500 CADD\560 working\akv292 - standard, 20150209\E-107 NEW WORK-DETAIL B.dwg last saved on 3/12/2015 10:11 AM was plotted by Balzarini, Charles on 3/12/2015 11:28 AM

ELECTRICAL NOTES

1. NEW 100 AMP POWER PEDESTAL. PROVIDE A MOUNTING BASE FOR MOUNTING ON WOOD DOCK. MOUNT EACH PEDESTAL AT CORNER WITH 1-1/2" LAG SCREWS. PROVIDE ALL STAINLESS SCREWS AND HARDWARE. RECEPTACLES SHALL BE MOUNTED AT A DOWN ANGLE OF 35 DEGREES FROM VERTICAL. PROVIDE A HOSE/CABLE BRACKET CAPABLE OF HOLDING A 50 FEET OF POWER CONDUCTOR CABLE. SEE SHEET E-114 AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE NEW POWER CABLE FROM PANEL TF, ROUTED UNDER THE NEW DECK. MAKE CONNECTIONS TO THE NEW PEDESTAL LOOP FEED BUSS BAR. SECURE THE FEEDER CABLE IMMEDIATELY UNDER THE PEDESTAL TO THE UNDERSIDE OF THE NEW WOOD DECK TO PREVENT STRAIN ON THE BUSS BAR. SEE E-115

3. NEW FLOODLIGHT POLE LOCATION CONSISTING OF A 25 FOOT, ~~ROUND-TAPERED POLE~~, A HORIZONTAL BRACKET FOR 2 FIXTURES, 2-400 WATT METAL HALIDE FIXTURES TYPE A, AND ALL THE REQUIRED HARDWARE FOR A FUNCTIONAL INSTALLATION. PROVIDE A METALLIC LABEL ON POLE WITH POLE LOCATION NAME. PROVIDE GLARE SHIELD AND ANTI-PERCHING MATERIAL ON EACH FIXTURE. ONE FIXTURE SHALL FACE EAST. ONE FIXTURE SHALL FACE WEST. ALL FIXTURES SHALL BE AIMED 48 DEGREES FROM HORIZONTAL LEVEL. PROVIDE A METALLIC LABEL ON POLE WITH POLE LOCATION NAME. PROVIDE ALL WIRING AND CONNECTIONS TO EACH FIXTURE AND TO THE NEW BRANCH CIRCUITS FROM NEW POWER PANEL Q. SEE SHEET E-112. TYPICAL ALL NEW TWO FIXTURE LIGHT POLE LOCATIONS.

24' SQ TAPERED
SWING DOWN
POLE

4. NEW MAIN FLOAT LIGHT FIXTURE LOCATION CONSISTING OF ALL THE PREVIOUSLY SALVAGED COMPONENTS. ASSEMBLE THE STRUCTURE AND INSTALL AT THIS NEW LOCATION. PROVIDE NEW BRANCH CIRCUIT AND ANY MISCELLANEOUS HARDWARE FOR PROPER AND COMPLETE INSTALLATION. TYPICAL ALL NEW LIGHT FIXTURE LOCATIONS. SEE E-115.

SEE REVISED PANEL SCHEDULE
ON SHEET E-115

5. ~~NEW POWER PANEL Q, 125 AMP, 120/208 VAC, NEMA 4X. PROVIDE MINIMUM 6-20 AMP, 2 POLE BREAKER; 3-10 AMP, 2 POLE BREAKER; 1-15 AMP, 1 POLE BREAKER; 1-20 AMP, 1 POLE BREAKER.~~ PROVIDE PHOTOCELL CONTROL AND HARDWARE CONTAINED IN A SEPARATE ENCLOSURE CONTAINING THE CONTROL RELAY/CONTACTOR, WIRING, A HAND-OFF-AUTO SELECTOR SWITCH, AND OTHER REQUIRED HARDWARE TO ENABLE THE NEW POLE MOUNTED FIXTURES TO OPERATE ONLY DURING DARKNESS. PANEL SHALL BE MOUNTED ON A METAL SUPPORT STRUCTURE USING UNISTRUT OR SIMILAR METAL COMPONENTS. THE SUPPORT STRUCTURE SHALL BE MOUNTED TO THE NEW WOOD DECK AS SHOWN ON DETAILS. SEE WIRING AND MOUNTING DETAILS FOR SPECIFIC CONSTRUCTION INFORMATION.

6. ~~EXISTING TRANSFORMER FLOAT AND POWER PANEL TF TO REMAIN. ADJUST ITS LOCATION AS REQUIRED TO ACCOMMODATE CONNECTION TO NEW MAIN FLOAT AND DECK.~~

7. NEW LIGHT POLE LOCATION CONSISTING OF A 25 FOOT, ~~ROUND-TAPERED POLE~~, A HORIZONTAL BRACKET FOR A 400 WATT METAL HALIDE FIXTURE TYPE A, AND ALL THE REQUIRED HARDWARE FOR A FUNCTIONAL INSTALLATION. PROVIDE A METALLIC LABEL ON POLE WITH POLE LOCATION NAME. PROVIDE GLARE SHIELD AND ANTI-PERCHING MATERIAL ON FIXTURE. FIXTURE SHALL BE AIMED 48 DEGREES FROM HORIZONTAL LEVEL. PROVIDE ALL WIRING AND CONNECTIONS TO THE NEW BRANCH CIRCUITS FROM NEW POWER PANEL Q. TYPICAL ALL NEW SINGLE FIXTURE LIGHT POLE LOCATIONS. SEE SHEET E-112.

24' SQ TAPERED
SWING DOWN
POLE

8. NEW 20 AMP, 120VAC, NEMA 5-20R DUPLEX RECEPTACLE. INSTALL INSIDE A WEATHERPROOF, NON-METALLIC BOX WITH HINGED COVER CAPABLE OF WHILE IN USE OPERATION. PROVIDE A NEW BRANCH CIRCUIT OF 2#12, 1#12G, TYPE G CABLE FROM NEW CIRCUIT BREAKER IN NEW PANEL Q. SEE SHEET E-116 FOR INSTALLATION DETAIL.

9. ADJUST FINAL LOCATION OF POWER PEDESTAL TO PROVIDE ADEQUATE WORKING CLEARANCE BETWEEN POWER PEDESTAL AND NEW LIGHT POLES. MINIMUM CLEARANCES SHALL BE PER NEC.

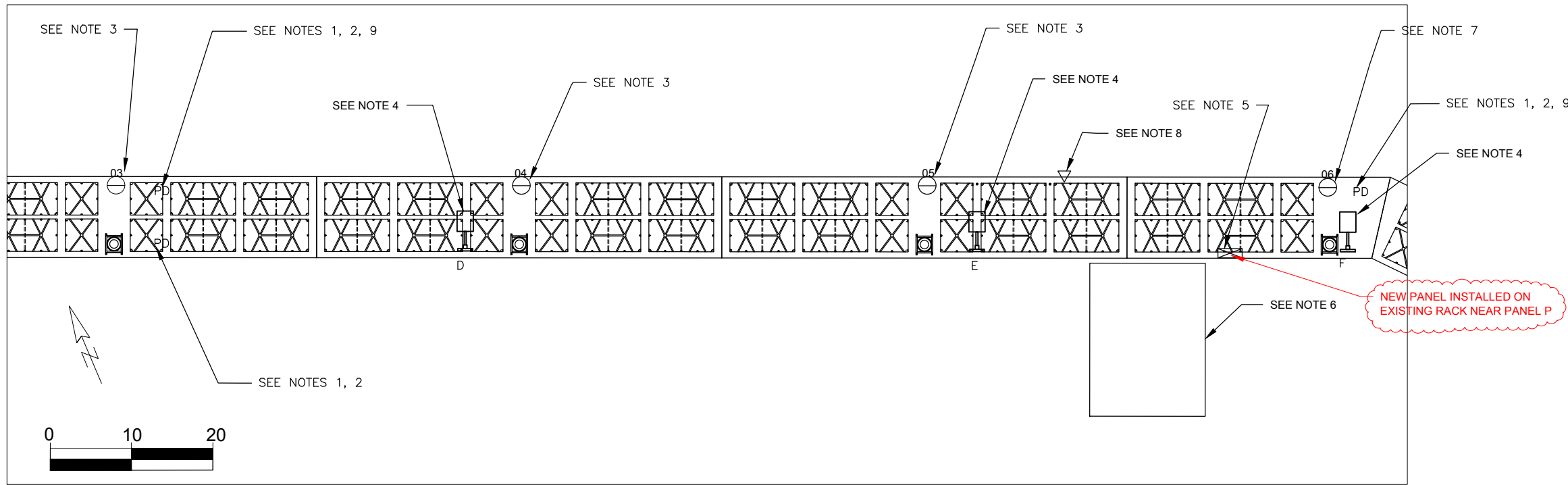
GENERAL NOTES

1. THIS WORK INVOLVES PARTIAL DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT AND CIRCUITS WHICH ARE SHOWN ON THE DRAWINGS. THERE IS EXISTING EQUIPMENT AND CIRCUITS WHICH PROVIDE POWER TO EQUIPMENT ON EACH ONE OF THE EXISTING A, B, C, D, E, AND MAIN FLOATS. THIS SYSTEMS WILL REMAIN IN PLACE AND WILL BE REUSED AT THE COMPLETION OF THE NEW WORK.

2. CONTRACTOR SHALL IDENTIFY, VERIFY, AND PROTECT THE EQUIPMENT AND CIRCUITS WHICH WILL REMAIN AND PREVENT DAMAGE DURING NEW CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS DURING CONSTRUCTION TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND CIRCUITS.

3. ALL EXISTING POWER AND LIGHTING PANELS ARE FED VIA POWER CABLES WHICH RUN UNDER THE EXISTING DECK. CABLES WHICH ARE NOT TO BE DEMOLISHED SHALL BE IDENTIFIED AND PROTECTED DURING CONSTRUCTION FOR FUTURE REUSE.

4. NEW POWER CABLES AND NON DEMOLISHED CABLES SHALL BE RUN VIA AVAILABLE CAVITY UNDER THE NEW DECK. THE CAVITY IS SHOWN IN DETAIL IN STRUCTURAL DRAWINGS.



NEW WORK — DETAIL B

IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED
SCALE PRINT. ADJUST SCALE ACCORDINGLY.

BID SET



CONTRACT NO.	DATE
CONTRACTOR	APPROVED
CITY	STATE
RECOMMENDED	DESIGN ENGINEER
NAME CONTRACTOR	

SYMBOL	DESCRIPTION	DATE	APP'D

DATE: 14 FEB 2014	DWG SCALE: AS NOTED
DESIGNED: JLO	PLOT SCALE: 1/2
DRAWN: ROBERT BOLTON	FILE: E-107 NEW WORK-DETAIL B
CHECKED: J. FABRIZIO	DRAWING #: 2-SEL-163-10-01
CHIEF ENGINEER	



SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
ELECTRICAL
PLANS
NEW WORK-DETAIL B

REFERENCE
NUMBER:
E-107
SHEET 34 OF 43

Drawing p:\8203 seldovia harbor\500 CADD\560 working\akv292 - standard, 20150209\E-108 NEW WORK-DETAIL C.dwg last saved on 3/12/2015 10:00 AM was plotted by Balzarini, Charles on 3/12/2015 11:28 AM

ELECTRICAL NOTES

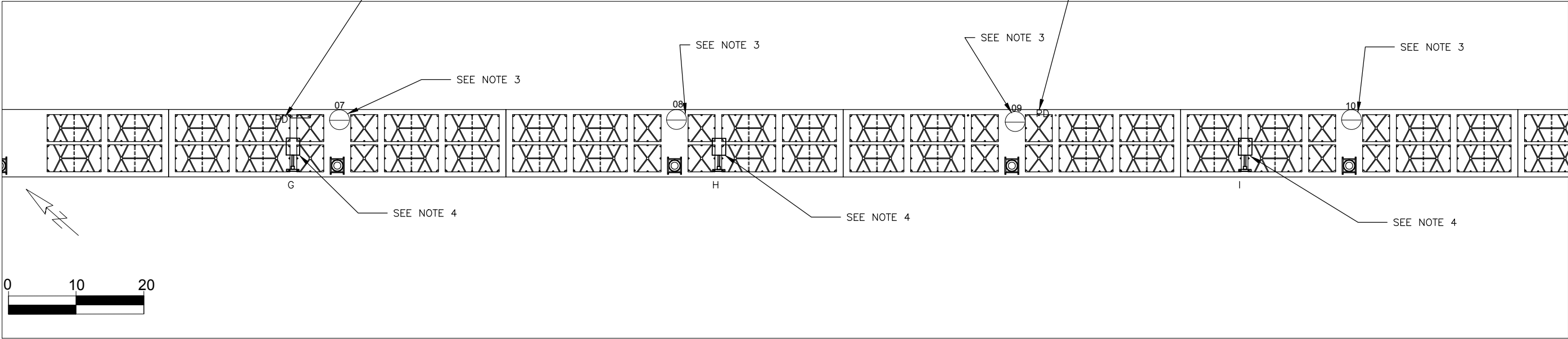
1. NEW 100 AMP POWER PEDESTAL. PROVIDE A MOUNTING BASE FOR MOUNTING ON WOOD DOCK. MOUNT EACH PEDESTAL AT CORNER WITH 1-1/2" LAG SCREWS. PROVIDE ALL STAINLESS SCREWS AND HARDWARE. RECEPTACLES SHALL BE MOUNTED AT A DOWN ANGLE OF 35 DEGREES FROM VERTICAL. PROVIDE A HOSE/CABLE BRACKET CAPABLE OF HOLDING A 50 FEET OF POWER CONDUCTOR CABLE. SEE SHEET E-114 AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE NEW POWER CABLE FROM PANEL TF, ROUTED UNDER THE NEW DECK. MAKE CONNECTIONS TO THE NEW PEDESTAL LOOP FEED BUSS BAR. SECURE THE FEEDER CABLE IMMEDIATELY UNDER THE PEDESTAL TO THE UNDERSIDE OF THE NEW WOOD DECK TO PREVENT STRAIN ON THE BUSS BAR.

3. NEW FLOODLIGHT LOCATION CONSISTING OF A 25 FOOT, ~~ROUND TAPERED POLE~~, A HORIZONTAL BRACKET FOR A 400 WATT METAL HALIDE FIXTURE TYPE A, AND ALL THE REQUIRED HARDWARE FOR A FUNCTIONAL INSTALLATION. PROVIDE A METALLIC LABEL ON POLE WITH POLE LOCATION NAME. PROVIDE GLARE SHIELD AND ANTI-PERCHING MATERIAL ON EACH FIXTURE. FIXTURE SHALL BE AIMED 48 DEGREES FROM HORIZONTAL LEVEL. PROVIDE ALL WIRING AND CONNECTIONS TO THE NEW BRANCH CIRCUITS FROM NEW POWER PANEL Q. TYPICAL ALL NEW SINGLE FIXTURE LIGHT POLE LOCATIONS. SEE SHEET E-112.
4. NEW MAIN FLOAT LIGHT FIXTURE LOCATION CONSISTING OF ALL THE PREVIOUSLY SALVAGED COMPONENTS. ASSEMBLE THE STRUCTURE AND INSTALL AT THIS NEW LOCATION. PROVIDE NEW BRANCH CIRCUIT AND ANY MISCELLANEOUS HARDWARE FOR PROPER AND COMPLETE INSTALLATION. TYPICAL ALL NEW LIGHT FIXTURE LOCATIONS. SEE E-115.
5. ADJUST FINAL LOCATION OF POWER PEDESTAL TO PROVIDE ADEQUATE WORKING CLEARANCE BETWEEN POWER PEDESTAL AND NEW LIGHT POLES OR ANY EXISTING EQUIPMENT. MINIMUM CLEARANCES SHALL BE PER NEC.


24' SQ TAPERED SWING DOWN POLE

GENERAL NOTES

1. THIS WORK INVOLVES PARTIAL DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT AND CIRCUITS WHICH ARE SHOWN ON THE DRAWINGS. THERE IS EXISTING EQUIPMENT AND CIRCUITS WHICH PROVIDE POWER TO EQUIPMENT ON EACH ONE OF THE EXISTING A, B, C, D, E, AND MAIN FLOATS. THIS SYSTEMS WILL REMAIN IN PLACE AND WILL BE REUSED AT THE COMPLETION OF THE NEW WORK.
2. CONTRACTOR SHALL IDENTIFY, VERIFY, AND PROTECT THE EQUIPMENT AND CIRCUITS WHICH WILL REMAIN AND PREVENT DAMAGE DURING NEW CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS DURING CONSTRUCTION TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND CIRCUITS.
3. ALL EXISTING POWER AND LIGHTING PANELS ARE FED VIA POWER CABLES WHICH RUN UNDER THE EXISTING DECK. CABLES WHICH ARE NOT TO BE DEMOLISHED SHALL BE IDENTIFIED AND PROTECTED DURING CONSTRUCTION FOR FUTURE REUSE.
4. NEW POWER CABLES SHALL BE RUNS VIA AVAILABLE CAVITY UNDER THE NEW DECK. THE CAVITY IS SHOWN IN DETAIL IN STRUCTURAL DRAWINGS.



NEW WORK — DETAIL C




**US ARMY CORPS
OF ENGINEERS**
ALASKA DISTRICT

CONTRACT NO.	CONTRACTOR	CITY	STATE	DATE
RECOMMENDED	APPROVED	DESIGN ENGINEER		
PRIME CONTRACTOR				

DATE: 14 FEB 2014	DWG SCALE: AS NOTED	PLOT SCALE: 1/2
DESIGNED: JLO	DRAWN: ROBERT BOLTON	FILE: E-08 NEW WORK-DETAIL C
REVIEWED: ROBERT BOLTON	CHECK: J. FABRIZIO	DRAWING #: 2-SEL-163-10-01
CHIEF: J. FABRIZIO	CHIEF: J. FABRIZIO	CHIEF: J. FABRIZIO

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA



SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
ELECTRICAL
PLANS
NEW WORK-DETAIL C

REFERENCE
NUMBER:
E-108

SHEET 35 OF 43

P2 No. 328049

AKV292

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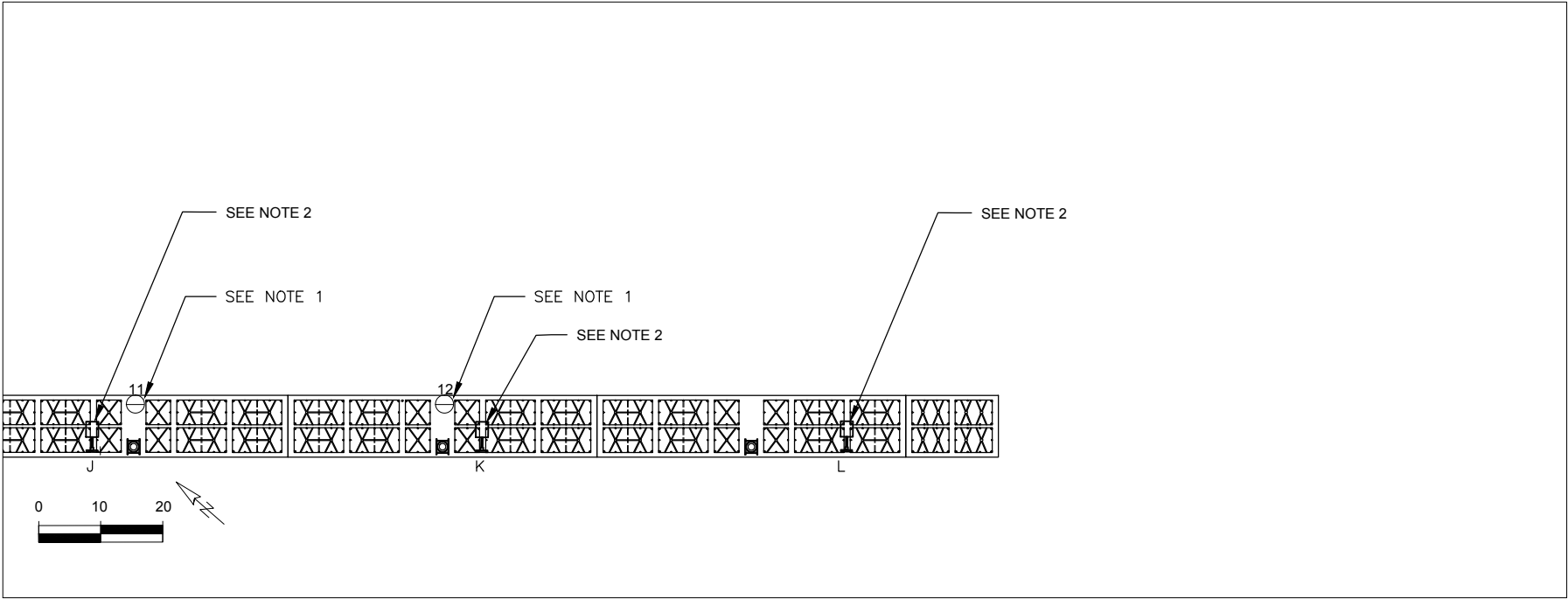
BID SET

Drawing p:\8203 seldovia harbor\500 CADD\560 working\akv292 - standard, 20150209\E-109 NEW WORK-DETAIL D.dwg last saved on 3/11/2015 5:16 PM was plotted by Balzarini, Charles on 3/12/2015 11:28 AM

ELECTRICAL NOTES

1. NEW FLOODLIGHT LOCATION CONSISTING OF A 25 FOOT, ~~ROUND TAPERED POLE~~, 1-400 WATT METAL HALIDE FIXTURE, AND ALL THE REQUIRED HARDWARE FOR A FUNCTIONAL INSTALLATION. PROVIDE A METALLIC LABEL ON POLE WITH POLE LOCATION NAME. PROVIDE GLARE SHIELD AND ANTI-PERCHING MATERIAL ON THE FIXTURE. FIXTURE SHALL FACE EAST. FIXTURE SHALL BE AIMED 48 DEGREES FROM HORIZONTAL LEVEL. PROVIDE ALL WIRING AND CONNECTIONS TO FIXTURE AND TO THE NEW BRANCH CIRCUIT FROM NEW POWER PANEL Q. SEE E-112 AND SINGLE LINE DIAGRAM DETAIL FOR ADDITIONAL INFORMATION.
2. NEW MAIN FLOAT LIGHT FIXTURE LOCATION CONSISTING OF ALL THE PREVIOUSLY SALVAGED COMPONENTS. ASSEMBLE THE STRUCTURE AND INSTALL AT THIS NEW LOCATION. PROVIDE NEW BRANCH CIRCUIT AND ANY MISCELLANEOUS HARDWARE FOR PROPER AND COMPLETE INSTALLATION. TYPICAL ALL NEW LIGHT FIXTURE LOCATIONS.


24' SQ TAPERED SWING DOWN POLE



NEW WORK – DETAIL D

GENERAL NOTES

1. THIS WORK INVOLVES PARTIAL DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT AND CIRCUITS WHICH ARE SHOWN ON THE DRAWINGS. THERE IS EXISTING EQUIPMENT AND CIRCUITS WHICH PROVIDE POWER TO EQUIPMENT ON EACH ONE OF THE EXISTING A, B, C, D, E, AND MAIN FLOATS. THIS SYSTEMS WILL REMAIN IN PLACE AND WILL BE REUSED AT THE COMPLETION OF THE NEW WORK.
2. CONTRACTOR SHALL IDENTIFY, VERIFY, AND PROTECT THE EQUIPMENT AND CIRCUITS WHICH WILL REMAIN AND PREVENT DAMAGE DURING NEW CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS DURING CONSTRUCTION TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND CIRCUITS.
3. ALL EXISTING POWER AND LIGHTING PANELS ARE FED VIA POWER CABLES WHICH RUN UNDER THE EXISTING DECK. CABLES WHICH ARE NOT TO BE DEMOLISHED SHALL BE IDENTIFIED AND PROTECTED DURING CONSTRUCTION FOR FUTURE REUSE.
4. NEW POWER CABLES AND NON DEMOLISHED CABLES SHALL BE RUN VIA AVAILABLE CAVITY UNDER THE NEW DECK. THE CAVITY IS SHOWN IN DETAIL IN STRUCTURAL DRAWINGS.



US ARMY CORPS
OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. _____
CONTRACTOR _____
CITY _____
RECOMMENDED _____
APPROVED _____
DATE _____
STATE _____
DESIGN ENGINEER _____
SEAL CONTRACTOR _____

SYN. ACTION

DESCRIPTION

DATE


APPROVED

DESIGNED: JLO
DRAWN: JLO
REVIEWED: ROBERT BOLTON
CHECKED: J. FABRIZIO
SUBMITTED: J. FABRIZIO
CHIEF, TECHNICAL BRANCH

DATE: 14 FEB 2014
DWG SCALE: AS NOTED
PLOT SCALE: 1/2
FILE: E-109 NEW WORK-DETAIL D
DRAWING #: 2-SEL-163-10-01

AKV292

P2 No. 326049



U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
ELECTRICAL
PLANS
NEW WORK-DETAIL D

REFERENCE
NUMBER:
E-109

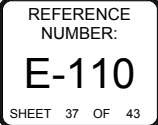
SHEET 36 OF 43

BID SET

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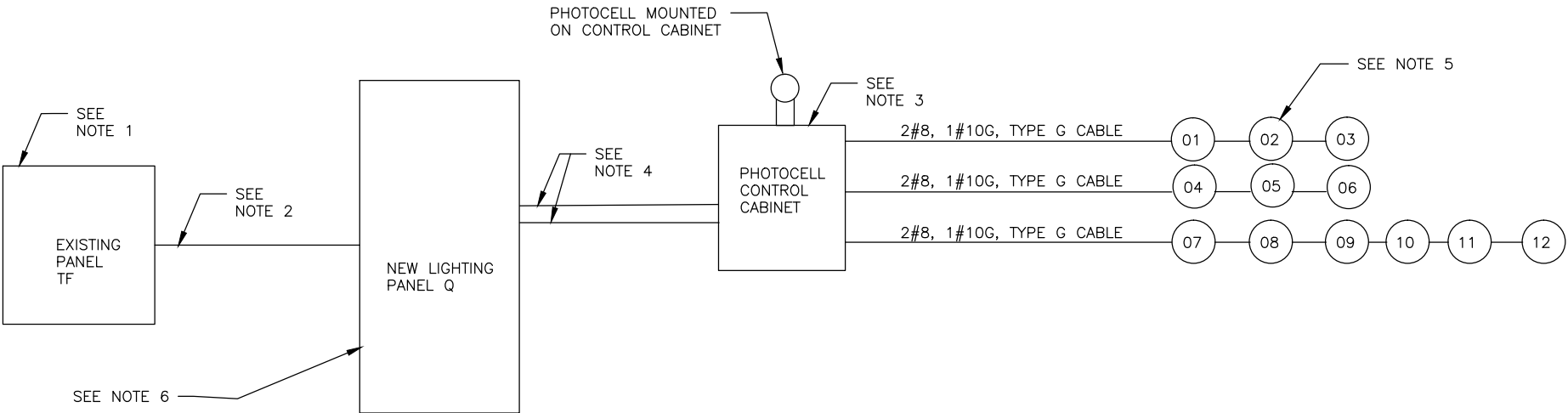
4. EXTEND NEW 2#8, 1#10G, TYPE G CABLE TO LOCATION OF LIGHT POLE AT THE FLOATPLANE DOCK. CABLE SHALL BE INSTALLED UNDER NEW DECK.

4. NEW POWER CABLES AND NON DEMOLISHED CABLES SHALL BE RUN VIA AVAILABLE CAVITY UNDER THE NEW DECK. THE CAVITY IS SHOWN IN DETAIL IN STRUCTURAL DRAWINGS.



BID SET

Drawing p:\8203 seldovia harbor\500 CADD\560 working\akv292 - standard, 20150209\E-111 SINGLE LINE DIAGRAM, PANEL SCHEDULE, FIXTURE SCHEDULE.dwg last saved on 3/11/2015 10:14 AM was plotted by Balzarini, Charles on 3/12/2015 11:29 AM



FLOODLIGHT WIRING DIAGRAM

NTS

PANEL Q NEMA 12 125 AMP 120/208VAC										
3 PHASE, SN, 100 AMP MAIN BREAKER										
	POLES	SIZE		A	B	C		SIZE	POLES	
1	2	20	FLOODLIGHT CIRCUIT 1	1560	2860		FLOODLIGHT CIRCUIT 2	20	2	2
3					1560	1300				4
5	2	20	FLOODLIGHT CIRCUIT 3	1560		100	CONTACTOR CONTROL CIRCUIT	20	1	6
7						1560		20	1	8
9	2	20	SPARE				SPACE	30	2	10
11										12
13	2	20	SPACE				SPACE	20	2	14
15										16
17										18
19										20
				3120	4420	2960				

NOTES

- EXISTING POWER PANEL TF. PANEL IS GE, 1200 AMP, 120/208VAC, TYPE CCS, STYLE 2. PROVIDE A NEW 125 AMP, 3 POLE, 208VAC CIRCUIT BREAKER IN EXISTING PANEL.
- PROVIDE NEW FEEDER OF 4#2, 1#9 TYPE G CABLE FROM NEW CIRCUIT BREAKER TO NEW LIGHTING PANEL Q.
- NEW CONTROL CABINET, NEMA 4X ENCLOSURE. PROVIDE PHOTOCELL CONTROL UNIT WITH ADJUSTABLE SENSITIVITY , A 30 AMP, 8 POLE LIGHTING CONTACTOR, HAND-OFF-AUTO SELECTOR SWITCH, CLEARING CONTACTS; AND ALL OTHER HARDWARE, WIRING AND CONNECTIONS TO PROVIDE AUTOMATIC OR MANUAL CONTROL OF THE NEW LIGHTING CIRCUITS. PROVIDE LOCK AND KEY. SEE CONTROL WIRING DIAGRAM SHEET E-112 FOR SPECIFIC WIRING DETAILS.
- PROVIDE NEW FEEDERS OF 6#8, 3#10G, 2"C FROM POTOCELL CONTROL CABINET TO NEW PANEL Q. PROVIDE 1#12, 1#12, 3/4"C FROM NEW 20 AMP, 1 POLE CIRCUIT BREAKER TO CONTROL COIL OF NEW CONTACTOR.
- NEW LIGHT POLE LOCATION CONSISTING OF A METAL POLE AND TYPE A LIGHT FIXTURES. SEE NEW WORK DETAIL SHEETS FOR SPECIFIC LOCATIONS. TYPICAL.
- NEW 125 AMP, 120/208VAC, NEMA 4X, POWER PANEL. PROVIDE ALL MOUNTING HARDWARE FOR MOUNTING ON A METAL SUPPORT FRAME ANCHORED TO NEW WOOD DECK. PROVIDE LOCK AND KEY. PROVIDE MINIMUM 4-20 AMP, 2 POLE, 208VAC CIRCUIT BREAKERS, 2-20 AMP, 120VAC, 1 POLE CIRCUIT BREAKER. ALL BRANCH CIRCUIT BREAKERS SHALL BE MARKED AND LISTED HID FOR USE WITH HIGH INTENSITY DISCHARGE LIGHTING SWITCHING PER NEC 240.83D.

TYPE	LIGHT FIXTURE SCHEDULE
A	400 WATT, METAL HALIDE FLOODLIGHT. ONE-PIECE COPPER-FREE (<.4%) CAST ALUMINUM HOUSING WITH ROUNDED CORNERS. HINGED, SPRING LOADED LATCHES; THERMAL SHOCK, HEAT AND IMPACT-RESISTANT TEMPERED GLASS LENS. SINGLE PIECE SILICONE GASKET. SEMI SPECULAR REFLECTOR. UL 1598A LISTED, MARINE OUTSIDE TYPE (SALTWATER), RATING. 7X6 DISTRIBUTION. HIGH POWER FACTOR, CONSTANT WATTAGE OUTOTRANSFORMER BALLAST. PROVIDE 400 WATT LAMP AND GLARE SHIELD ACCESSORY. PROVIDE ALL MOUNTING HARDWARE. SIMILAR OR EQUAL TO HUBBELL MVH SERIES, CATALOG NUMBER MVH-0400P-268 OR AZZ/R-A-L, AFL SERIES, CATALOG NUMBER AFL140-H-04-T-66 FIXTURES OR APPROVED EQUAL. SEE SPECIFICATION SECTION 26 56 00 FOR ADDITIONAL SALIENT FEATURE REQUIREMENTS.

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BID SET

US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO.	CONTRACTOR	CITY	STATE	DATE

RECOMMENDED: _____
APPROVED: _____
DESIGNED: _____
DRAWN: _____
CHECKED: _____
SUBMITTED: _____
FILE: _____
DRAWING # 2-SEL-163-10-01

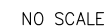
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DESIGNED: JLO
DRAWN: JLO
CHECKED: ROBERT BOLTON
SUBMITTED: J. FABRIZIO
FILE: 2-SEL-163-10-01

SELDOVIA, ALASKA
WEST MARGINAL FLOOD REPLACEMENT
ELECTRICAL
DETAILS
SINGLE LINE DIAGRAM, PANEL SCHEDULE, FIXTURE SCHEDULE

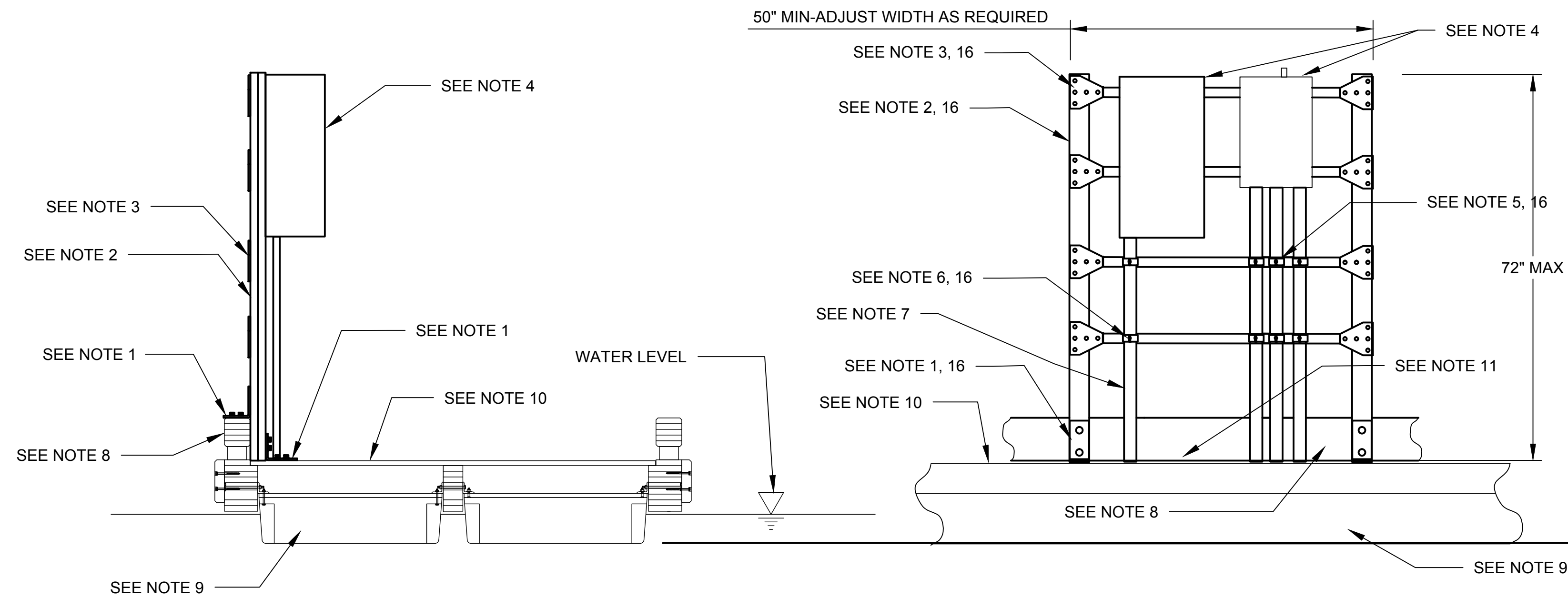
REFERENCE NUMBER:
E-111
SHEET 38 OF 43

AKV292
P2 No. 328049

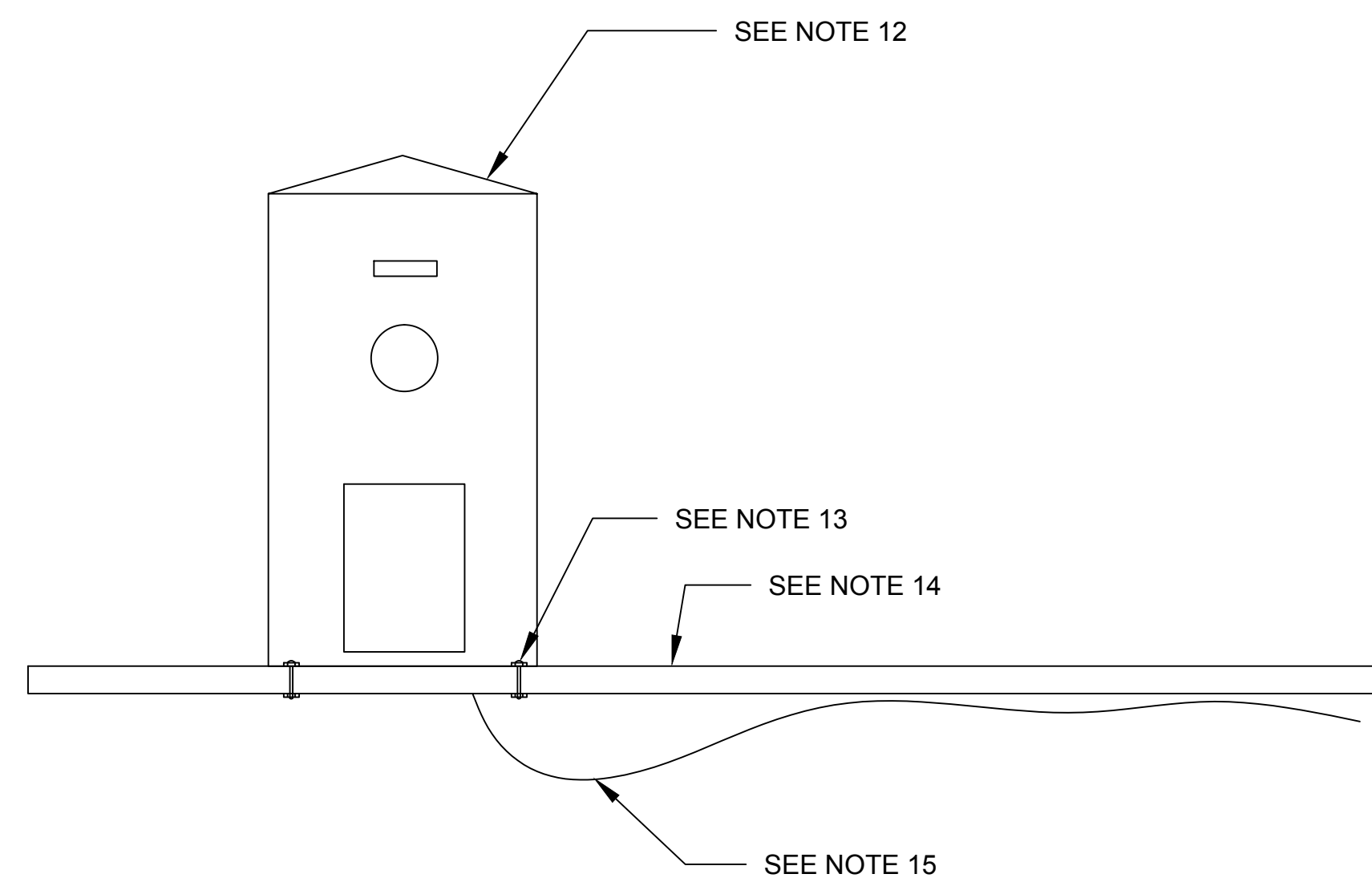


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Drawing p:18203 seldovia harbor1500 CADD1560 workinglakv292 - standard, 20150209E-113 MISCELLANEOUS DETAILS II.dwg last saved on 3/11/2015 10:14 AM was plotted by Balzarini, Charles on 3/12/2015 11:29 AM



NEW POWER PANEL Q INSTALLATION



POWER PEDESTAL INSTALLATION ON WOOD DECK

NOTES

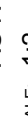
1. 90 DEGREE ANGLE FITTING AND HARDWARE. TYPICAL ON ALL ANCHORING TO NEW DECKING MATERIAL.
2. P3001 1-5/8" CHANNEL SECTION. TYPICAL.
3. P1726 FLAT PLATE FITTING. PROVIDE ADDITIONAL PLATES AS REQUIRED TO MATCH EXACT DIMENSIONS AND MANUFACTURER MOUNTING REQUIREMENTS FOR PROPER SUPPORT. TYPICAL.
4. NEW LIGHTING PANEL Q AND CONTACTOR. SEE OTHER DRAWINGS FOR SPECIFIC EQUIPMENT AND LOCATIONS.
5. P3000 1-5/8" CHANNEL SECTION. ADJUST THE HEIGHT OF THE CHANNELS TO MATCH THE MOUNTING REQUIREMENTS OF THE EQUIPMENT PER MANUFACTURER SPECIFICATIONS. PROVIDE ADDITIONAL CHANNELS AS REQUIRED TO MATCH EXACT DIMENSIONS AND MANUFACTURER MOUNTING REQUIREMENTS OF THE EQUIPMENT PROVIDED. TYPICAL.
6. P2000 SERIES CONDUIT CLAMPS WITH HARDWARE TO FIT THE SPECIFIC CONDUIT SIZE AND QUANTITY. TYPICAL.
7. FEEDER AND BRANCH CIRCUIT CONDUITS AS REQUIRED. SEE SINGLE LINE DIAGRAM FOR SPECIFIC SIZES.
8. NEW BULL RAIL. SEE STRUCTURAL FOR DETAILS.
9. NEW FLOAT DRUMS. SEE STRUCTURAL FOR DETAILS.
10. NEW DECKING. SEE STRUCTURAL FOR DETAILS.
11. FIELD TREAT DECK BOARD OPENINGS FOR CONDUITS FOR A TIGHT SEAL.
12. NEW POWER PEDESTAL. SHALL BE SIMILAR OR EQUAL TO EATON LIGHTHOUSE-SS POWER PEDESTAL. PROVIDE BASE AND HARDWARE FOR INSTALLATION ON WOOD DECK. TYPICAL.
13. AT EACH CORNER OF THE BASE INSTALL A 1-1/2" LAG SCREW AND WASHER. PROVIDE ONLY STAINLESS BOLTS AND HARDWARE FOR THIS INSTALLATION. TYPICAL ALL NEW POWER PEDESTALS.
14. NEW WOOD DECK. SEE STRUCTURAL FOR ADDITIONAL DETAILS.
15. NEW POWER CABLE FEEDER. CABLE SHALL BE 4 CONDUCTOR, WITH GROUND, 3 POLE, 4 WIRE, TYPE G, UL RATED FOR 75 DEG C FOR WET LOCATIONS. TYPICAL FOR ALL POWER PEDESTALS FEEDERS. PROVIDE COMPRESSION TERMINALS AT ENDS OF LINE WIRES FOR INSTALLATION ON PEDESTAL STUD LUG CONNECTORS. SEE E-115 FOR CIRCUITS.
16. PROVIDE HOT DIP GALVANIZED (HG) FINISH PER ASTM A123 OR A 153, ON ALL SUPPORT MATERIALS AND HARDWARE. TYPICAL ALL SUPPORT MATERIALS AND HARDWARE



**S ARMY CORPS
F ENGINEERS
ASKA DISTRICT**

CONTRACT NO. _____		DATE: _____	
CONTRACTOR _____		RESIDENT ENGINEER _____	
CITY _____	STATE _____	RECOMMENDED: _____	APPROVED: _____
		PRIME CONTRACTOR _____	

[illegible]

	DRAWN: JLO REVIEWED: ROBERT BOLTON CHIEF, ENGINEERING SECTION J. FABRIZIO CHIEF, ENGINEERING SECTION	DWG SCALE: AS NOTED PLOT SCALE: 1:2 FILE: E:\1\MS2\LANDUSE\2F\10-11 DRAWING #: 2-SEL-163-10-11
	P2 No. 326049	AKV292

WEST MARGINAL FLOAT REPLACEMENT
ELECTRICAL
DETAILS
MISCELLANEOUS DETAILS II

REFERENCE
NUMBER:

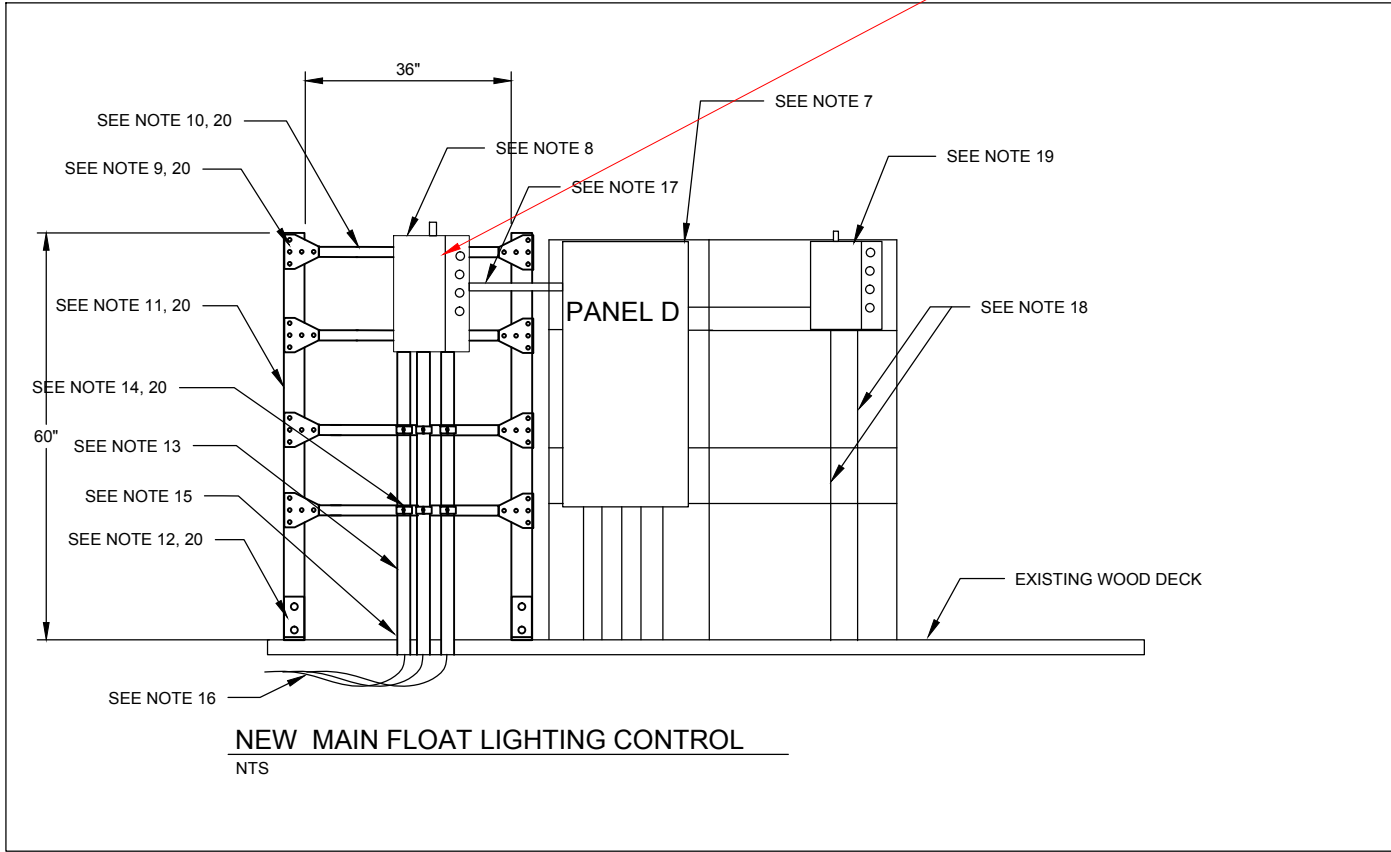
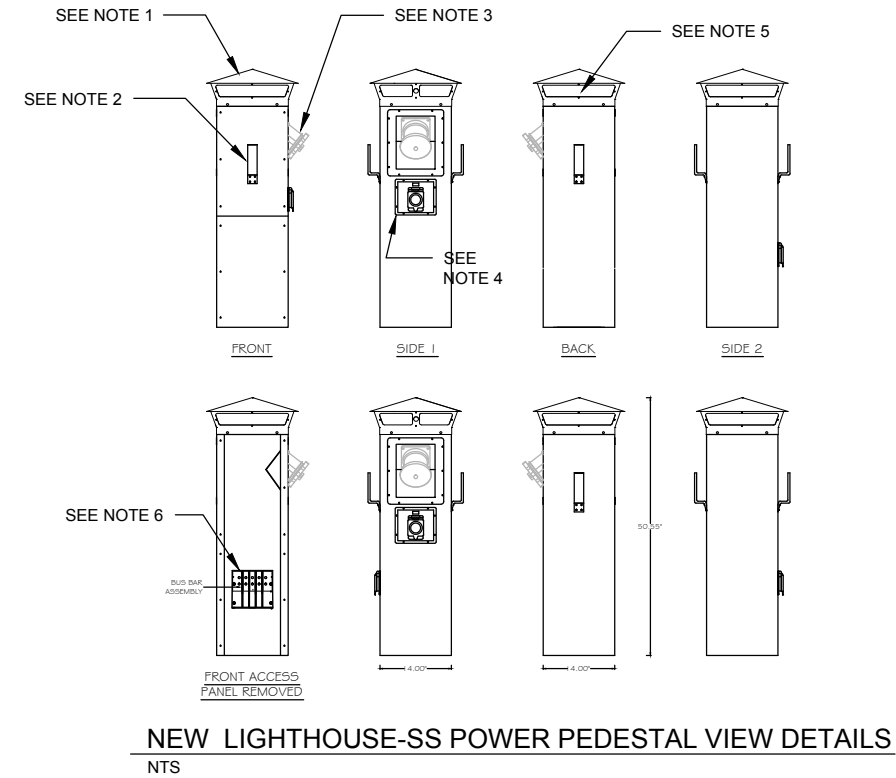
E-113

SHEET 40 OF 43

IF SHEET DOES NOT MEASURE 22" x 34" IT IS AN ALTERED
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BID SET

Drawing p:\8203 seldovia harbor\500 CADD\560 working\akv292 - standard, 20150209\E-114 NEW POWER PEDESTAL AND MAIN FLOAT LIGHTING DETAILS.dwg last saved on 3/11/2015 4:44 PM was plotted by Balzarini, Charles on 3/12/2015 11:29 AM



PANEL NOT INSTALLED. COMPONENTS
INSTALLED IN EXISTING PANEL P

- NOTES
1. NEW POWER PEDESTAL. SEE OTHER DRAWINGS FOR EXACT LOCATIONS AND INSTALLATION DETAILS.
 2. CABLE LOOP HANDLES
 3. 208VAC, 3 PHASE RECEPTACLE WITH COVER
 4. 100 AMP CIRCUIT BREAKER AND ELECTRONIC METER ASSEMBLY
 5. LIGHTING ASSEMBLY WITH FLUORESCENT BULBS
 6. THREE PHASE, LOOP FEED BUSS BAR ASSEMBLY. TYPICAL ALL NEW POWER PEDESTALS.
 7. INSTALL NEW 3-2 POLE, 20 AMP CIRCUIT BREAKERS AND A 20 AMP, 1 POLE CIRCUIT BREAKER IN EXISTING PANEL D. SEE SHEET E-101 FOR EXACT LOCATION.
 8. INSTALL NEW 30 AMP, 8 POLE, 240VAC, MECHANICALLY HELD LIGHTING CONTACTOR ON NEW METAL FRAME. PROVIDE NEW NEMA 4X ENCLOSURE AND 120VAC CONTROL CIRCUITRY. PROVIDE NEW PHOTOCELL CONTROL, ON-OFF-AUTO CONTROL SWITCH ON DOOR. PROVIDE ALL REQUIRED INTERNAL COMPONENTS AND CONNECTIONS FOR PROPER OPERATION OF LIGHT CIRCUIT. PROVIDE ALL REQUIRED HARDWARE FOR PROPER MOUNTING ON METAL SUPPORT FRAME.
 9. P1726 FLAT PLATE FITTING. TYPICAL
 10. P3000 1-5/8" CHANNEL SECTION. ADJUST THE HEIGHT OF THE CHANNELS TO MATCH THE MOUNTING REQUIREMENTS OF THE EQUIPMENT PER MANUFACTURER SPECIFICATIONS. PROVIDE ADDITIONAL CHANNELS AS REQUIRED TO MATCH EXACT DIMENSIONS AND MANUFACTURER MOUNTING REQUIREMENTS OF THE EQUIPMENT PROVIDED. TYPICAL
 11. P3001 1-5/8" CHANNEL SECTION. TYPICAL
 12. 90 DEGREE ANGLE FITTING AND HARDWARE. TYPICAL ON ALL ANCHORING TO NEW DECKING MATERIAL. TYPICAL
 13. NEW 2" PVC, SCH 40 CONDUIT WITH TYPE G POWER CABLE TO LOCATION OF NEW LIGHT POLES ON MAIN FLOAT. TYPICAL
 14. P2000 SERIES CONDUIT CLAMPS WITH HARDWARE TO FIT THE SPECIFIC CONDUIT SIZE AND QUANTITY. TYPICAL
 15. FIELD TREAT DECK BOARD OPENINGS FOR CONDUITS FOR A TIGHT SEAL. TYPICAL
 16. NEW POWER CABLE FEEDER. CABLE SHALL BE 3 CONDUCTOR, TYPE G, UL RATED FOR WET LOCATIONS. TYPICAL
 17. NEW 4#8, 2#10, 2#10G, 1#12G, 2" SCH 40 PVC CONDUIT, AND 1#12, 1#12G 3/4" PVC CONDUIT FROM NEW CIRCUIT BREAKERS TO NEW LIGHTING CONTACTOR.
 18. EXISTING POWER CIRCUITS FOR EXISTING LIGHT PEDESTALS ON FLOAT C, SHORE POWER PEDESTALS ON FLOAT D AND FLOAT E, HARBOR MASTER STORAGE FLOAT, AND THE FIRE STORAGE FLOAT. PROTECT THESE EXISTING CIRCUITS DURING CONSTRUCTION AS THEY REMAIN IN USE.
 19. EXISTING LIGHTING CONTACTOR ADJACENT TO LIGHTING PANEL D TO REMAIN. PROTECT THIS EQUIPMENT DURING CONSTRUCTION AS IT WILL REMAIN IN USE. DISCONNECT EXISTING MAIN FLOAS POLE MOUNTED LIGHTING FROM EXISTING LIGHTING CONTACTOR. CONTACTOR AND REMAINING CIRCUITS AND COMPONENTS SHALL REMAIN FOR USE.
 20. PROVIDE HOT DIP GALVANIZED (HG) PER ASTM A 123 OR A 153 ON ALL SUPPORT AND HARDWARE MATERIALS.

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BID SET

US ARMY CORPS
OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO.	CONTRACTOR	CITY	STATE	DATE
RECOMMENDED:	APPROVED:	DESIGN ENGINEER		
		SEAL CONTRACTOR		

SYMBOL	DESCRIPTION	DATE	APP'D

DESIGNED: JLO
DRAWN: JLO
REVIEWED: ROBERT BOLTON
CHECKED: J. FABRIZIO
SUBMITTED: J. FABRIZIO
CHIEF ELECTRICAL ENGINEER

DATE: 14 FEB 2014
DWG SCALE: AS NOTED
PLOT SCALE: 1/2
FILE: E:\8203\SELDOVIA\500 CADD\560 working\akv292 - standard.dwg
DRAWING #: 2-SEL-163-10-01

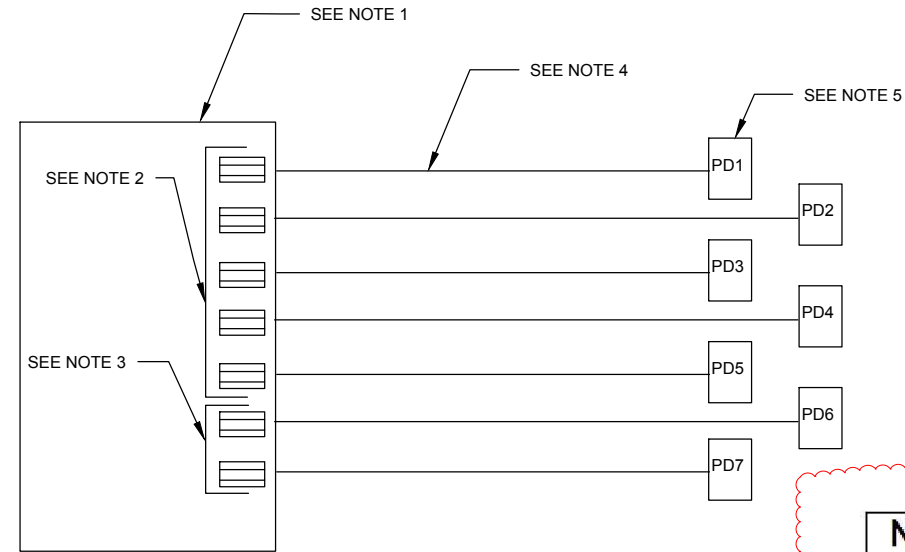
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
ELECTRICAL
DETAILS
NEW POWER PEDESTAL AND MAIN FLOAT LIGHTING
DETAILS

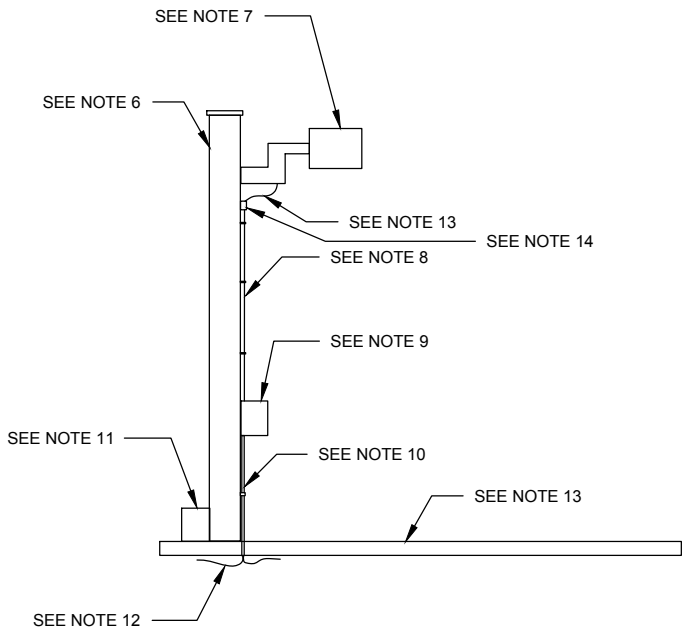
REFERENCE
NUMBER:
E-114
SHEET 41 OF 43

AKV292
P2 No. 328049

Drawing p:\8203 seldovia harbor\500 CADD\560 working\akv292 - standard, 20150209\E-115 ELECTRICAL DETAILS I.dwg last saved on 3/11/2015 4:33 PM was plotted by Balzarini, Charles on 3/12/2015 11:29 AM



NEW POWER PEDESTAL BRANCH CIRCUITS
NTS



NEW MAIN FLOAT LIGHT POLE INSTALLATION
NTS

NEW PANEL TF SCHEDULE	
PANEL TF	
1000A 3P MAIN DISCONNECT	
225A PANEL D	225A PANEL P
125A PANEL Q	100A MAIN FLOAT PEDESTAL #1
100A MAIN FLOAT PEDESTAL #1	100A MAIN FLOAT PEDESTAL #1
100A MAIN FLOAT PEDESTAL #2	100A MAIN FLOAT PEDESTAL #1
100A MAIN FLOAT PEDESTAL #3	100A MAIN FLOAT PEDESTAL #1
100A A-FLOAT 100A PEDESTALS SOUTH	100A A-FLOAT 100A PEDESTALS NORTH

EXISTING PANEL P REVISED SCHEDULE	
PANEL P	
125A 3P B-FLOAT NORTH 30A PEDESTALS	125A 3P A-FLOAT 50A PEDESTALS
60A 3P SPARE	60A 3P SPARE
*30A 2P C-FLOAT PEDESTAL	100A 3P A-FLOAT 30A PEDESTALS
BLANK	
100A 3P B-FLOAT 30A PEDESTALS	60A 3P SPARE
*NOTE C-FLOAT PEDESTAL WAS REINSTALLED	

NOTES

1. EXISTING POWER PANEL TF TO REMAIN. PANEL TF IS A 1200 AMP 120/208VAC, 3 PHASE, 4 WIR4E, TYPE CCS STYLE 2. SEE SHEET E-101 AND E-103 FOR EXACT LOCATION.
2. FIVE EXISTING 100 AMP, 3 POLE CIRCUIT BREAKERS SERVING EXISTING 208VAC POWER PEDESTAL WILL BE REUSED. CONNECT NEW POWER CABLES TO EXISTING CIRCUIT BREAKERS.
3. INSTALL 2 NEW 100 AMP, 3 POLE, 208VAC CIRCUIT BREAKERS IN EXISTING SPACES FOR NEW POWER CABLES FOR NEW POWER PEDESTALS.
4. INSTALL NEW 4 CONDUCTOR, 4#2/0, 1#6G, 3 PHASE, TYPE G POWER CABLE FROM EXISTING AND NEW CIRCUIT BREAKERS IN PANEL TF AND EXTEND UNDER NEW DECK TO LOCATION OF EACH NEW POWER PEDESTAL. PORTIONS OF CABLE ABOVE NEW DECK SHALL BE ENCLOSED IN 2" SCH 40 PVC CONDUIT. TYPICAL.
5. NEW 100 AMP, 3 PHASE POWER PEDESTALS LOCATED ALONG NEW FLOAT DECK. SEE NEW WORK DETAIL PLAN A, B, AND C FOR EXACT LOCATION OF EACH PEDESTAL. TYPICAL
6. SALVAGED 6X6 WOOD LIGHT POLE. INSTALL AT EACH LOCATION SHOWN ON SHEETS E-106 THRU E-109. TYPICAL ALL WOOD POLE MOUNTED LIGHT POLE LOCATIONS.
7. SALVAGED 175 WATT MH LIGHT FIXTURE AND MOUNTING HARDWARE. INSTALL ON POLE AT SAME HEIGHT. PROVIDE ANY OTHER REQUIRED HARDWARE FOR PROPER INSTALLATION.
8. PROVIDE NEW 3/4" PVC SCH 40 CONDUIT FROM JUNCTION BOX TO LIGHT FIXTURE. PROVIDE NEW CLAMPS AND MOUNTING HARDWARE.
9. SALVAGED JUNCTION BOX AND MOUNTING HARDWARE. INSTALL MINIMUM 36" ABOVE DECK. PROVIDE REQUIRED MOUNTING HARDWARE. SPLICE INCOMING POWER CABLES TO BRANCH CABLES FOR LIGHT FIXTURES.
10. PROVIDE 2 NEW 2" CONDUITS FOR NEW POWER CABLES. ONE CONDUIT FOR INCOMING CABLE AND ONE CONDUIT FOR OUTGOING CABLE TO NEXT LIGHT POLE. CONDUITS SHALL BE ANCHORED TO WOOD POLE WITH METAL CHANNELS AND CONDUIT CLAMPS. CONDUITS SHALL BE SECURED AND EXTENDED THRU THE WOOD DECK.
11. NEW WOOD BULL RAIL. SEE STRUCTURAL DRAWINGS. PROVIDE ANCHORING AND MOUNTING HARDWARE TO SECURE THE WOOD POLE THRU THE WOOD DECK AND TO BULL RAIL. SEE STRUCTURAL DRAWINGS FOR INSTALLATION DETAILS.
12. NEW INCOMING AND OUTGOING POWER CABLES. SECURE CABLES UNDER THE NEW WOOD DECK AT THIS LOCATION AND ALONG THE DECK TO NEXT LIGHT POLE. TYPICAL ALL LIGHTING POWER CABLES.
13. NEW 3/4" LIQUID TIGHT FLEX CONDUIT EXTENDED FROM PVC CONDUIT TO LIGHT FIXTURE CONNECTION ARM.
14. NEW WEATHERPROOF, SINGLE GANG JUNCTION BOX. MINIMUM SIZE 4.5"x2"x2.75".



CONTRACT NO.	CONTRACTOR	CITY	STATE	DATE
RECOMMENDED	APPROVED	DESIGN ENGINEER		
		SEAL CONTRACTOR		

SYMBOL	DESCRIPTION	DATE	APPD

DESIGNED: JLO	DATE: 14 FEB 2014	DWG SCALE: AS NOTED	PLT SCALE: 1/2
DRAWN: JLO	REVIEWED: ROBERT BOLTON	FILE: E-115 ELECTRICAL DETAILS I	DRAWING #: 2-SEL-163-10-01
CHECKED: JLO	SUBMITTED: J. FABRIZIO	CHIEF: J. FABRIZIO	CHIEF: J. FABRIZIO
U.S. ARMY ENGINEER DISTRICT	CORPS OF ENGINEERS	ANCHORAGE, ALASKA	

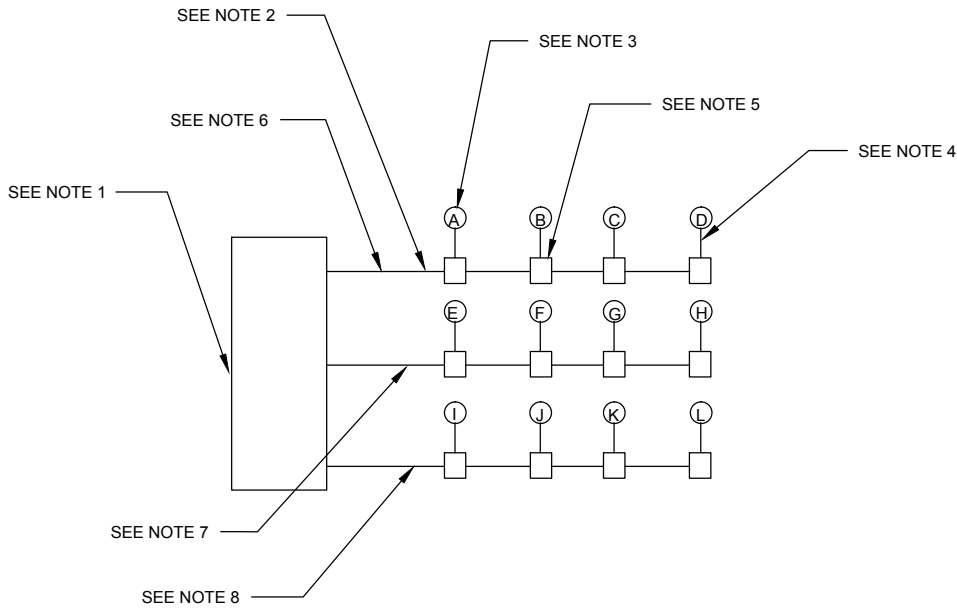
SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
ELECTRICAL
DETAILS
ELECTRICAL DETAILS I

REFERENCE NUMBER:
E-115
SHEET 42 OF 43

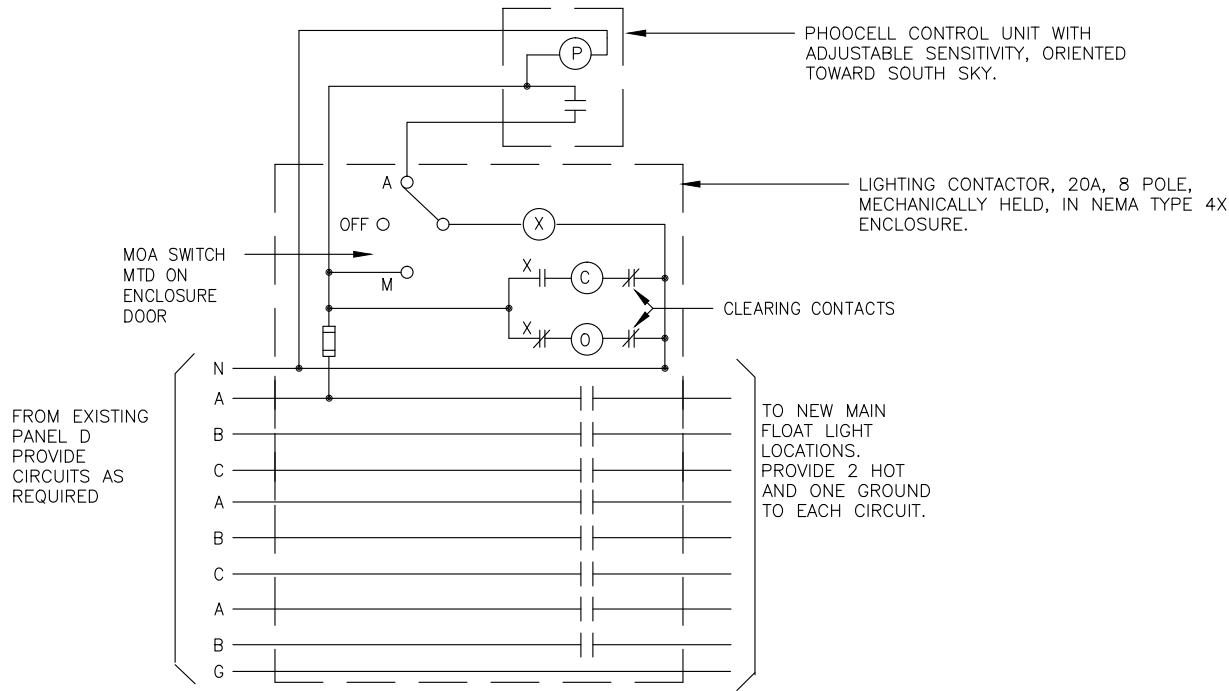
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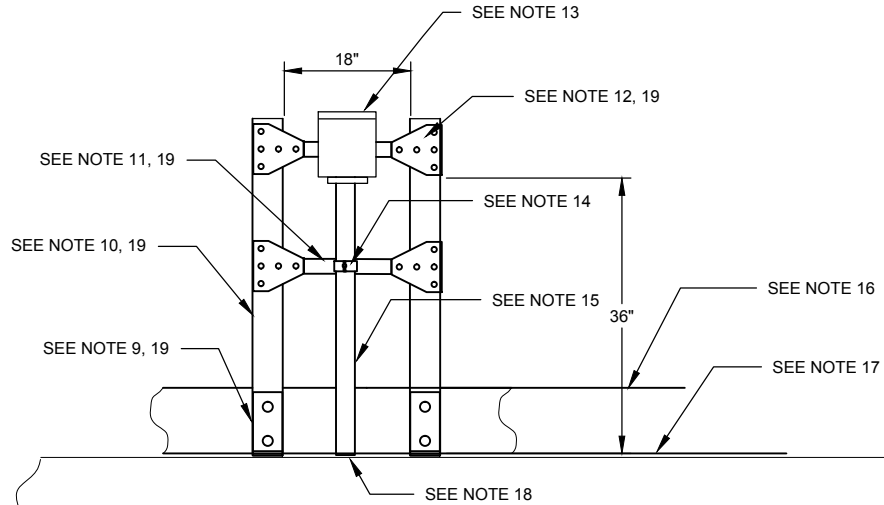
NEW MAIN FLOAT LIGHT CIRCUITS
NTS



MAIN FLOAT LIGHTING CONTROL DIAGRAM
N.T.S.

NOTES

1. NEW LIGHTING CONTACTOR INSTALLED UNDER BASE CONTRACT NEAR EXISTING LIGHTING PANEL D.
2. NEW 3 CONDUCTOR TYPE G POWER CABLES. PORTIONS OF CABLE ABOVE WOOD DECK SHALL BE ENCLOSED IN 2" SCH 40 PVC CONDUIT. PREPARE WOOD AROUND CONDUIT FOR TIGHT FITTING AND SEAL THE INSTALLATION.
3. SALVAGED LIGHT FIXTURE TO BE INSTALLED AT NEW LOCATION.
4. NEW 2#12, 1#12G, 3/4" PVC CONDUIT FROM JUNCTION BOX TO LIGHT FIXTURE. PROVIDE ALL CLAMPS AND MOUNTING HARDWARE FOR PROPER ATTACHMENT TO WOOD POLE. TYPICAL
5. SALVAGED JUNCTION BOX TO BE INSTALLED MINIMUM 30" FROM DECK SURFACE. PROVIDE ALL REQUIRED MOUNTING HARDWARE FOR PROPER INSTALLATION ON WOOD POLE. TYPICAL
6. 3 CONDUCTOR #8 (2#8, 1#10G) TYPE G CABLE.
7. 3 CONDUCTOR #8 (2#8, 1#10G) TYPE G CABLE.
8. 3 CONDUCTOR #10 (2#10, 1#12G) TYPE G CABLE.
9. 90 DEGREE ANGLE FITTING AND HARDWARE. TYPICAL ON ALL ANCHORING TO NEW DECKING MATERIAL.
10. P3001 1-5/8" CHANNEL SECTION. TYPICAL.
11. P3000 1-5/8" CHANNEL SECTION.
12. P1726 FLAT PLATE FITTING. TYPICAL
13. NEW 20 AMP, 120VAC, NEMA 5-20R, CFCI, DUPLEX RECEPTACLE IN A WEATHERPROOF, MARINE RATED, STEEL BOX WITH LOCKABLE COVER.
14. P2000 SERIES CONDUIT CLAMPS WITH HARDWARE TO FIT THE SPECIFIC CONDUIT SIZE AND QUANTITY. TYPICAL.
15. 1#12, 1#12G, TYPE G CABLE IN 2" SCH 40 PVC CONDUIT FROM NEW PANEL Q. PORTION OF CABLE BELOW DECK SHALL BE 3 CONDUCTOR CABLE.
16. NEW BULL RAIL. SEE STRUCTURAL FOR DETAILS.
17. NEW DECKING. SEE STRUCTURAL FOR DETAILS.
18. FIELD TREAT DECK BOARD OPENINGS FOR CONDUITS FOR A TIGHT SEAL.
19. PROVIDE HOT DIP GALVANIZED (HG) PER ASTM A123 OR A 153 ON ALL SUPPORT MATERIALS AND HARDWARE.



NEW DUPLEX RECEPTACLE INSTALLATION
NTS



CONTRACT NO.	DATE
CONTRACTOR	STATE
CITY	APPROVED
RECOMMENDED	DESIGN ENGINEER
DESIGN ENGINEER	DESIGN ENGINEER

SYMBOL	DESCRIPTION	DATE	APPROVED

DATE: 14 FEB 2014	DWG SCALE: AS NOTED	PLT SCALE: 1/2
DESIGNED: JLO	DRAWN: ROBERT BOLTON	FILE: E-116 ELECTRICAL DETAILS II
REVIEWED: ROBERT BOLTON	CHECK: J. FABRIZIO	DRAWING #: 2-SEL-163-10-01
CHIEF: J. FABRIZIO	CHIEF: J. FABRIZIO	CHIEF: J. FABRIZIO

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

AKV292

P2 No. 328049

SELDOVIA, ALASKA
WEST MARGINAL FLOAT REPLACEMENT
ELECTRICAL
DETAILS
ELECTRICAL DETAILS II

REFERENCE
NUMBER:
E-116
SHEET 43 OF 43

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